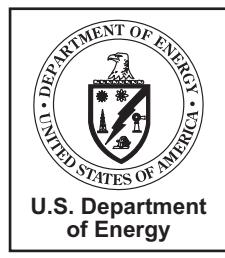




Pinellas Environmental Restoration Project

Sitewide Environmental Monitoring Quarterly Progress Report for the Young-Rainey STAR Center January Through March 2004

April 2004



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Quarterly Progress Report
for the
Young - Rainey STAR Center**

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Work Performed by S.M. Stoller Corporation under DOE Contract No. DE-AC01-02GJ79491
for the U.S. Department of Energy Office of Legacy Management, Grand Junction, Colorado

Contents

	Page
Acronyms and Abbreviations	v
1.0 Introduction	1
1.1 Building 100 Area.....	2
1.2 Northeast Site.....	3
1.3 WWNA/Building 200 Area	5
1.4 Site Update.....	6
1.5 Quarterly Site Activities	6
2.0 Water-Level Elevations.....	7
2.1 Work Conducted and Methods	7
2.2 Ground Water Flow	7
3.0 Ground Water Sampling and Analytical Results	8
3.1 Work Performed	8
3.2 Analytical Results.....	9
3.2.1 Northeast Site (PIN15).....	9
3.2.2 Building 100 Area (PIN06, PIN09, PIN10, PIN12, and PIN21)	9
3.2.3 Wastewater Neutralization Area (PIN18)	9
3.3 Quality Assurance/Quality Control	10
4.0 Treatment System and Recovery Well Performance	11
4.1 Northeast Site and Building 100.....	11
4.2 Wastewater Neutralization Area	12
5.0 Conclusions	12
6.0 Tasks to be Performed Next Quarter.....	12
7.0 References	13

Figures

Figure 1. Young - Rainey STAR Center Location	15
Figure 2. Location of STAR Center Solid Waste Management Units (SWMUs)	16
Figure 3. Ground Water Elevations and Shallow Surficial Aquifer Flow, Northeast Site, January 2004	17
Figure 4. Ground Water Elevations and Deep Surficial Aquifer Flow, Northeast Site, January 2004	18
Figure 5. Ground Water Elevations and Shallow Surficial Aquifer Flow, Building 100 Area, January 2004	19
Figure 6. Ground Water Elevations and Deep Surficial Aquifer Flow, Building 100 Area, January 2004	20
Figure 7. Northeast Site Total COPC Concentrations January 2004 Sampling Event	21
Figure 8. Building 100 Area Total COPC Concentrations January 2004 Sampling Event	22
Figure 9. WWNA Total COPC Concentrations January 2004 Sampling Event.....	23
Figure 10. Historical Northeast Site and Building 100 Ground Water Recovery	24
Figure 11. January 2004 Northeast Site (Individual Wells) Ground Water Recovery	24
Figure 12. February 2004 Northeast Site (Individual Wells) Ground Water Recovery	25
Figure 13. March 2004 Northeast Site (Individual Wells) Ground Water Recovery	25

Figure 14. January 2004 Building 100 Ground Water Recovery	26
Figure 15. February 2004 Building 100 Ground Water Recovery	26
Figure 16. March 2004 Building 100 Ground Water Recovery	27
Figure 17. Historical Northeast Site Air Stripper—Percent Time On-Line	27

Tables

Table 1. WWNA Recovery Well Startup Monitoring Arsenic Concentrations.....	29
Table 2. Water-Level Data at the STAR Center	31
Table 3. Floridan Aquifer Monitoring Well Water Elevations.....	36
Table 4. Vertical Hydraulic Differential.....	36
Table 5. Surface Water Elevations.....	36
Table 6. Field Measurements of Samples Collected at the STAR Center	37
Table 7. COPC Concentrations at the Northeast Site	38
Table 8. COPC Concentrations at the Building 100 Area	43
Table 9. COPC Concentrations at the Wastewater Neutralization Area	48
Table 10. Relative Percent Difference (RPD) for Duplicate Samples.....	51
Table 11. Tracking Form for Data Anomalies.....	52
Table 12. Summary of Analytical Results for Ground Water Samples Collected at the Northeast Site Treatment System.....	53
Table 13. Historical Summary of Ground Water Recovery at the Northeast Site and Building 100.....	54
Table 14. Estimated Mass of VOCs Recovered from the Northeast Site and Building 100 Recovery Wells During January, February, and March 2004	55

Plates

Plate 1 Sitewide Shallow Surficial Aquifer Contours
Plate 2 Sitewide Deep Surficial Aquifer Contours

Appendices

Appendix A Laboratory Reports—January 2004 Quarterly Results
Appendix B Laboratory Reports for Northeast Site Treatment System—January through March 2004
Appendix C Laboratory Reports for WWNA—January through March 2004

Acronyms and Abbreviations

AST	air stripper tower
bls	below land surface
°C	degrees Celsius
CMS	Corrective Measures Study
CMIP	Corrective Measures Implementation Plan
COPC	contaminant of potential concern
DCE	dichloroethene
DOE	U.S. Department of Energy
EA	environmental assessment
EPA	U.S. Environmental Protection Agency
FDEP	Florida Department of Environmental Protection
FONSI	Finding of No Significant Impacts
ft	feet
ft/ft	feet per foot
gpm	gallons per minute
HSWA	Hazardous and Solid Waste Amendment
HRC	Hydrogen Release Compound®
ICM	interim corrective measures
IMW	Interim Measures Work (Plan)
IWNF	Industrial Wastewater Neutralization Facility
MCL	maximum contaminant level
MSL	mean sea level
µmhos/cm	micromhos per centimeter
µg/L	micrograms per liter
mg/L	milligrams per liter
mV	millivolt
NAPL	non-aqueous phase liquid
NEPA	National Environmental Policy Act
NGVD	national geodetic vertical datum
NTU	Nephelometric Turbidity Units
PCIC	Pinellas County Industrial Council
QA/QC	quality assurance/quality control
RCRA	Resource Conservation and Recovery Act
RFA	RCRA Facility Assessment
RPD	relative percent difference
STAR Center	Young - Rainey Science, Technology, and Research Center
SWMU	solid-waste management unit
TCE	trichloroethene
TCOPC	total contaminant of potential concern
VOCs	volatile organic compounds
WWNA	Wastewater Neutralization Area

1.0 Introduction

The Young - Rainey Science, Technology, and Research Center (STAR Center) is a former U.S. Department of Energy (DOE) facility constructed in the mid-1950s in Pinellas County, Florida. The 99-acre STAR Center is located in Largo, Florida, and lies in the northeast quarter of Section 13, Township 30 South, Range 15 East ([Figure 1](#)). The STAR Center, while owned by DOE, primarily manufactured neutron generators for nuclear weapons. Other products manufactured at the STAR Center have included radioisotopically powered thermoelectric generators, thermal batteries, specialty capacitors, crystal resonators, neutron detectors, lightning-arrestor connectors, and vacuum-switch tubes. In 1987, the U.S. Environmental Protection Agency (EPA) performed a Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA) at the site to gather information on potential releases of hazardous materials. In February of 1990, EPA issued a Hazardous and Solid Waste Amendment (HSWA) permit to DOE, enabling DOE to investigate and perform remediation activities in those areas contaminated by hazardous materials resulting from DOE operations. On March 17, 1995, DOE sold the facility to the Pinellas County Industrial Council (PCIC). The sales contract included clauses to ensure continued compliance with Federal, State, and local regulations while DOE remediates the site. On July 1, 1999, the PCIC was disestablished and ownership of the STAR Center changed to the Pinellas County government. In November 2000, the State of Florida received HSWA authorization from the EPA. The Florida Department of Environmental Protection (FDEP) issued a new HSWA Permit to DOE in January 2002.

Administration of DOE activities at the facility is the responsibility of the DOE Idaho Operations Office. Responsibility for environmental restoration activities, conducted under the EPA RCRA Corrective Action Program of 1984, was transferred from DOE's Pinellas Area Office to DOE's Grand Junction Office in October 1997. S.M. Stoller Corporation (Stoller), a prime contractor to DOE's Office of Legacy Management (formerly DOE's Grand Junction Office), provides technical support to DOE for remediation and closure of all active solid-waste management units (SWMUs) on site.

The EPA RFA Report and the HSWA permit identified 15 sites at the former DOE facility that may have experienced environmental contamination as a result of past activities. Upon completion of the RCRA Facility Investigation, 11 of the 15 SWMUs were recommended by DOE and approved by EPA Region IV and the FDEP for no further action (DOE 1994). A twelfth site, the Former Pistol Range Site, was remediated in 1993 and recommended by DOE and approved by EPA Region IV and the FDEP for no further action.

Two additional SWMUs, the West Fenceline Site and the Wastewater Neutralization Area/Building 200 (WWNA/Building 200), were identified after the HSWA permit was issued, bringing the total to 17 SWMUs that have been identified and investigated at the STAR Center. Remediation of the West Fenceline Site was completed in 1997 and DOE recommended, and EPA Region IV and FDEP approved, no further action. A Corrective Measures Study (CMS)/Corrective Measures Implementation Plan (CMIP) was prepared and submitted in 1997 to EPA Region IV and FDEP to address the contamination at the WWNA/Building 200 Area.

Therefore, there are currently four sites that have contamination in the surficial aquifer ground water at levels in excess of protective standards. These four SWMUs, the Old Drum Storage Site (PIN06), the Industrial Drain Leaks-Building 100 Area (PIN12), the Northeast Site (PIN15), and the WWNA/Building 200 Area (PIN18), are undergoing remediation activities. Two SWMUs,

PIN06 and PIN12, are currently being remediated together because of their similar ground water contamination and proximity. These two SWMUs are collectively known as the Building 100 Area. [Figure 2](#) depicts the location of the four SWMUs.

Additional background information relative to each SWMU is briefly described below. This document also serves as the quarterly progress report for each of these four SWMUs. The results of monitoring activities, a summary of the treatment system performance, and a summary of ongoing and projected work are provided in this report.

1.1 Building 100 Area

The Building 100 Area (PIN06 and PIN12) is located in the southeast portion of the STAR Center. The Old Drum Storage Site is the former location of a concrete storage pad equipped with a drain and containment system used to store hazardous waste including dichloromethane (also known as methylene chloride), ignitable liquids, arsenic, and calcium chromate solids (DOE 1987a). Empty drums containing residual waste solvents were also stored in this area (DOE 1987b). The concrete pad was located near the northwest corner of Building 100. The pad was removed in October 1983 in accordance with an FDEP closure permit (DOE 1987a), and a closure report was submitted to the FDEP in August 1986 (DOE 1986). The decommissioning of the pad and the cessation of drum storage effectively removed the potential for a future contaminant source at PIN06.

Building 100 is the largest building at the STAR Center and covers approximately 11 acres. In the past, offices, laboratories, and production facilities for the DOE were housed in the building. SWMU PIN12 consists of the liquid waste drainage system serving Building 100. Four individual drainage systems (sanitary, chemical, health physics, and storm water) were present within the building. In 1989, all four drainage systems were investigated, including verifying the system routing and the condition of underground and above-ground piping and ancillary equipment (EMC 1989). As a result of this investigation, the health physics and chemical drainage systems were flushed, grouted, and abandoned (DOE 1997). Some of the chemical drain lines were replaced by an above-ground system currently used by tenants of the building.

A CMS and CMIP were completed and approved for the Building 100 Area because volatile organic compounds (VOCs) concentrations measured in ground water at the Old Drum Storage Site (PIN06) and one monitoring well located at the northwest corner of Building 100 (PIN12) exceeded the Safe Drinking Water Act and FDEP maximum contaminant levels (MCLs). Subsequent investigations revealed elevated VOCs concentrations under Building 100 and downgradient to the southeast as well. On August 15, 2000, EPA approved the Building 100 CMIP Addendum. FDEP approved this same document on November 15, 1999.

Commencing in May 2001, DOE began an analysis of the potential remediation strategies for the three Building 100 Area tasks: plume control, source treatment, and dissolved phase treatment. The *Building 100 Area Remediation Technology Screening Report* (DOE 2001) was prepared and assembled a list of remediation technologies, categorized them into the remediation tasks, and conducted an initial screening of the technologies. This initial screening eliminated the technologies that obviously would not work and recommended technologies that should be retained for detailed evaluation at a later time. The final technology for each task will be identified at a later date.

The *Building 100 Area Plume Control Technology Selection Report*, prepared in February 2002, conducted a detailed evaluation of five plume control technologies and recommended a technology that should be implemented for plume control at the Building 100 Area. Based on this evaluation, enhanced bioremediation was recommended to control the contaminant plume.

In-situ enhanced bioremediation to control the plume of dissolved contaminants at the Building 100 Area began as a pilot study on March 11, 2003. Hydrogen Release Compound® (HRC) was injected around three ground water monitoring wells through nine injection points surrounding each monitoring well from March 11 through March 14. Ground water samples have been collected from each of the three monitoring wells at approximately 2-month intervals through March 2004 to track the progress of HRC at remediating site contaminants in the subsurface. HRC was selected because it is an effective technology for optimizing degradation rates of chlorinated hydrocarbons dissolved in ground water. The continuous hydrogen source provided by the HRC can reduce the concentration of dissolved phase chlorinated hydrocarbons by greatly enhancing the reductive dechlorination process that occurs naturally at the Building 100 Area. A final report is expected in mid-April 2004.

1.2 Northeast Site

In the late 1960s, before construction of the East Pond, drums of waste and construction debris were disposed of in the swampy area of the Northeast Site. The East Pond was excavated in 1968 as a borrow pit. In 1986, an expansion of the East Pond was initiated to create additional storm-water retention capacity. Excavation activities ceased when contamination was detected directly west of the East Pond. EPA identified the Northeast Site as a SWMU. An Interim Corrective Measures (ICM) Study was developed and submitted to EPA and approval of this document was received in October 1991. An interim ground water recovery system for the Northeast Site was installed, and operation commenced in January 1992. The implementation of this ICM system at this site is consistent with the regulatory goals of the EPA's RCRA Corrective Actions (Subpart S).

The ICM system, as initially installed, consisted of four recovery wells equipped with pneumatic recovery pumps, a holding tank, centrifugal transfer pumps, and approximately 2,500 feet (ft) of transfer and secondary containment piping. During 1993, DOE proposed a reconfigured system for the site consisting of four shallow and three deep recovery wells. After EPA approved the system upgrade, the system was reconfigured and became operational on March 1, 1994.

Between August and October 1995, after EPA and FDEP approval, a portion of the Northeast Site was excavated to remove debris and other materials that could inhibit future corrective measures. Location of the areas of excavation was based primarily on the results of a geophysical survey and knowledge of existing utility locations. Detailed descriptions of the debris removal activities were submitted to EPA and FDEP as part of the *Northeast Site Interim Measures Quarterly Progress Report* (DOE 1996).

In 1996, DOE submitted a CMIP to EPA Region IV and FDEP. This plan was approved by both regulatory agencies in 1997. As part of the Northeast Site CMS and CMIP, a pump-and-treat system in conjunction with a subsurface hydrogeologic barrier wall to prevent migration of the contaminant plume was identified as the best available technology. A pretreatment system for iron removal, an air stripper unit, and a tank for holding treated ground water before discharge to the Pinellas County Publicly Owned Treatment Works were recommended. The treatment

system was constructed in early 1997 and became operational by July 1997 with seven Northeast Site recovery wells and two Building 100 recovery wells pumping to the system influent tank. Subsequently several additional recovery wells were installed, and some of the old recovery wells were abandoned.

During 1997, anaerobic bioremediation and rotary steam stripping pilot tests were conducted in the northern and southern portions of the Northeast Site, respectively. These tests were designed by an Innovative Treatment Remediation Demonstration group of regulatory and industry members to provide remedial options at the STAR Center. At the conclusion of the field tests in July 1997, pump-and-treat technology resumed at the Northeast Site.

An Interim Measures Work (IMW) Plan for Remediation of Non-Aqueous Phase Liquids at the Northeast Site was submitted to FDEM in late November 2001. The purpose of this document was to present the plan for the interim measure to remediate non-aqueous phase liquids (NAPLs) at the Northeast Site. An ICM is warranted because it supports the long-term corrective action to remediate the dissolved phase contamination in the surficial aquifer to FDEM drinking water MCLs. Without this measure, NAPLs will continue to act as a source of dissolved contamination, resulting in contaminant concentrations in ground water well above the MCLs. FDEM approved this document on January 10, 2002.

Concurrent with the preparation of the IMW Plan, an Environmental Checklist recommending a Categorical Exclusion was prepared and approved by DOE on December 19, 2001. The Categorical Exclusion pathway was approved based upon the fact that the NAPL remediation of Area A is a small-scale, short-term cleanup action and the siting, construction, and operation of treatment facilities are temporary and pilot-scale in size.

A National Environmental Policy Act (NEPA) Action Review was conducted for the interim measure source removal action at Area B in October of 2002. A summary of the review concluded that Area B remediation would impact an area of approximately 38,000 square ft. The footprint of the above ground treatment system would be about 80 ft by 80 ft, and an estimated 84,000 gallons per day of ground water would be processed over a 24-week period of operation. The proposed interim measure, although not specifically identified in the 1995 *Environmental Assessment of Corrective Action at the Northeast Site* (EA), was determined to be within the scope of the proposed actions. The remedial activity would occur within the same physical boundaries and address the same contaminants identified in the EA, but in a more concentrated form. Because the EA provided for "design modifications to reflect technological advances or site-specific conditions," it was determined that the NAPL remediation of Area B was within the scope of the existing EA. However, this flexibility was not mentioned in the Finding of No Significant Impacts (FONSI) document signed in May 1995. Therefore, it was determined that the appropriate action under NEPA would require an amendment to the FONSI to include the broader scope of activities from the EA and any additional impacts from the NAPL removal action. The FONSI was amended, reviewed by the DOE-Idaho NEPA Planning Board, and approved by the DOE Grand Junction Office NEPA Compliance Officer on February 24, 2003.

Construction of the NAPL Area A treatment system began in late May 2002, and system startup occurred on September 26, 2002. NAPL treatment was partially complete on January 31, 2003, and totally finished on February 28, 2003. Three post-treatment sampling events occurred in March, May, and August 2003. Demobilization activities began in early March and were completed in September. The *Northeast Site Area A NAPL Remediation Final Report*

(DOE 2003), describing thermal remediation of Area A, was sent to stakeholders on September 25, 2003.

At the end of February 2004, a contract was awarded for the ET-DSP remediation of NAPL Area B. Construction of the NAPL Area B treatment system is scheduled to begin in July 2004, and system startup is scheduled for mid-2005. Significant events associated with NAPL remediation during this reporting period are presented in the *Northeast Site Non-Aqueous Phase Liquids Interim Measures Progress Report January through March 2004* (DOE 2004).

1.3 WWNA/Building 200 Area

The WWNA/Building 200 Area includes the active Industrial Wastewater Neutralization Facility (IWNF), the area around Building 200, and the area south of the neutralization facility. The IWNF refers to the physical treatment facility that currently receives sanitary and industrial wastewater and has been in operation since 1957.

A CMS Report and CMIP were completed in 1997 for this SWMU because vinyl chloride, trichloroethene (TCE), and arsenic were detected in surficial aquifer ground water at concentrations above Federal and State MCLs. The recommended remediation alternative for the WWNA/Building 200 Area was ground water recovery with the Building 100 Area wells and an additional recovery well located in the WWNA. The CMIP recommended that recovered water from the additional well be discharged directly to the IWNF and that the recovery well in the WWNA/Building 200 Area will withdraw surficial aquifer ground water directly from the arsenic plume and thereby reduce the contaminant mass and prevent contaminant migration.

FDEP response to the CMS/CMIP concerning arsenic soil contamination in the upper 2 ft suggested that a treatment technology, air sparging, was eliminated too early. DOE then proposed a multi-phased Interim Action that included operating the recovery well for 6 months, then pulsing the system, as well as performing geochemical analyses and leaching studies of the site. On January 21, 1999, FDEP approved the proposed interim remedial action.

Additionally, EPA Region IV also approved the interim remedial action and concurred with the FDEP's position regarding the arsenic contamination. EPA also requested an addendum or modification to the CMIP that addresses DOE's final selection of the remediation technology and a timeline for the completion of these activities.

In early June 1999, the WWNA recovery well commenced operation. All arsenic concentrations from the WWNA recovery well, PIN18-RW01, were below the STAR Center's daily maximum discharge standard for arsenic in wastewater of 0.20 milligrams per liter (mg/L) until shutdown.

Additional details concerning the impacts of ground water extraction are reported in the WWNA/Building 200 Area CMIP Addendum (DOE 2000b). Modifications to the recovery of ground water were proposed based on data collected through November 1999 and consisted of the installation of two new recovery wells screened at shallow intervals. The CMIP Addendum was submitted to the regulators and approved by FDEP and EPA. A Statement of Basis (DOE 2000a) was issued by DOE in late September 2000. This document provides a summary of environmental investigations and proposed cleanup alternatives for the WWNA/Building 200 Area. Current activities at the WWNA include ground water extraction from three recovery wells, PIN18-RW02, -RW03, and -RW0501, that discharge to the STAR Center's wastewater

system. [Table 1](#) depicts the results of the analysis of arsenic in ground water that is being recovered from these three wells.

1.4 Site Update

Safety and Ecology, Inc., the vendor that is implementing the in-situ enhanced bioremediation to control the plume of dissolved contaminants at the Building 100 Area, conducted ground water sampling activities at three ground water monitoring wells to track contaminant concentrations and other ground water parameters. Ground water sampling occurred in January and March 2004. The March sampling event was the last post-HRC injection sampling event. The data continue to indicate that the injection of HRC is having an influence in the pilot test area based on increasing concentrations of the metabolic acids (as produced from HRC) and the decreasing concentrations of sulfate and iron. A final report is expected in mid-April 2004.

Significant events associated with NAPL remediation during this reporting period are presented in the *Northeast Site Non Aqueous Phase Liquids Interim Measures Progress Report January through March 2004* (DOE 2004).

1.5 Quarterly Site Activities

Stoller personnel conducted the following tasks at the STAR Center to fulfill the requirements of the scope of work for quarterly sampling:

- Obtained water-level measurements from all accessible monitoring wells, recovery wells, and ponds on January 13, 2004.
- Conducted the quarterly sampling event in January 2004. The quarterly sampling event included collecting water samples from 37 monitoring and recovery wells. VOCs samples were collected at 30 wells. Arsenic was sampled at 10 wells.
- Reported the results of quarterly sampling events (this document).
- Instituted new anomaly detection data validation procedures that compare current data values to historical maximum and minimum values for each well.
- Performed one-time sampling for barium in effluent at the Wastewater Neutralization Area and in the effluent at the Northeast Site to assist the STAR Center in assessing the source of barium in the site discharge water (Ad Hoc PIN-AI)
- Received approval from FDEP to change analytical methods for wastewater effluent to EPA Method 624 and for routine ground water monitoring to Method EPA SW-846 Method 8260. The changes in methods were implemented on March 30, 2004.
- Returned to a normal sampling schedule after completing one year of metal sampling for arsenic at the Northeast Site and Building 100, and chromium sampling at the WWNA.

2.0 Water-Level Elevations

2.1 Work Conducted and Methods

Within an 8-hour period on January 13, 2004, depth-to-water measurements were taken at all accessible monitoring wells and extraction wells at the STAR Center. The water levels were measured with an electronic water-level indicator with the exception of some of the ponds, which are measured with gauging stations. Ground water and surface-water elevations are listed in [Table 2](#).

2.2 Ground Water Flow

Ground water and surface-water elevations were used to construct sitewide ground water contour maps of the shallow and deep surficial aquifers (Plates 1 and 2, respectively). Individual contour maps were also constructed for the shallow and deep surficial aquifers at the Northeast Site and the Building 100 Area ([Figure 3](#) through [Figure 6](#), respectively).

The water levels throughout the STAR Center indicate that the water table is highest in the north-central parts of the site (Plates 1 and 2). As ground water flows from this recharge area, it essentially disperses to the west, south, and east. These flow patterns are similar for both the shallow and deep surficial aquifers, and are consistent with previously observed flow patterns.

Along the northern boundary of the Northeast Site, the contours near the slurry wall indicate that the wall continues to be a significant barrier to ground water flow. As seen on [Figure 4](#), there is a differential of about 1.1 ft between the downgradient and upgradient sides of the wall as measured in monitoring wells PIN15-M24D and -M33D. This differential is slightly less than the historical range of about 2 to 5 ft, but similar to that observed in July and October 2003 (1.4 ft). The flow patterns suggest that only a minimal amount of ground water recharge to the deep surficial aquifer is derived from the pond. Otherwise, the differential between these two wells would be smaller and the ground water gradient would be steeper near the pond, indicating recharge to the ground water system. Water-table elevations, however, indicate that the pond recharged the shallow surficial aquifer in January 2004 ([Figure 3](#)).

In the shallow surficial aquifer at the Northeast Site, the hydraulic gradient was approximately 0.020 feet per foot (ft/ft), with general components of flow toward the south-central part of the Northeast Site (i.e., toward the area of ground water withdrawals). This flow pattern is similar to previously observed flow patterns. Using Darcy's Law, along with approximations of 1 ft/day for hydraulic conductivity and 0.3 for effective porosity, ground water at the Northeast Site is estimated to move about 24 ft/year toward the area of ground water withdrawals.. This velocity is similar to previous estimates of 17 and 22 ft/year. In the deep surficial aquifer, the radii of influence from the recovery wells can be seen on Plate 2, and are interpreted to extend roughly 140 ft south of the south fence.

In the south-central part of the STAR Center, surficial aquifer flow is influenced by ground water withdrawals from recovery wells PIN18-RW02, -RW03, and -RW0501 at the WWNA, and recovery wells PIN12-RW01 and -RW02 at Building 100 ([Figures 5](#) and 6). For the previous three quarters, and again in January 2004, shallow ground water beneath Building 100 was observed to flow to the southeast under a very slight gradient. The hydraulic gradient beyond the

influence of pumping at the Building 100 Area was about 0.001 ft/ft. Using the approximations mentioned above, ground water flow velocity in these areas is estimated to be less than 2 ft/year. Shallow ground water at the WWNA flows to the southeast, except where affected by recovery well withdrawals.

Water-level elevations in the three wells screened in the upper part of the Floridan aquifer are presented in [Table 3](#). The elevations in these wells indicate that the potentiometric surface of the Floridan aquifer at the site was about 2 ft lower in January 2004 than in October 2003.

A downward vertical hydraulic differential of approximately 7.3 ft existed between the surficial aquifer wells and Floridan aquifer wells at the Northeast Site. [Table 4](#) illustrates the vertical hydraulic differential. This differential is consistent with the historical range of 5 to 9 ft.

Surface-water elevations were recorded from the East, South, West, and Southwest Ponds at the site and are presented in [Table 5](#). The ponds are hydraulically connected to the shallow surficial aquifer system (Plate 1). The South and Southwest Ponds elevations have always been essentially the same. The West Pond elevation was below the lowest currently available measuring point elevation of 17.18 ft. A new staff gauge, which will allow for readings several feet below the current measuring point, is scheduled to be installed in the West Pond in May 2004.

3.0 Ground Water Sampling and Analytical Results

3.1 Work Performed

During quarterly sampling in January 2004, ground water samples were collected from 37 monitoring and recovery wells. VOCs analyses were performed on 30 samples using EPA Method SW-8021B. Arsenic was analyzed in 10 samples using EPA Method SW-846-6010B. Laboratory reports are provided in [Appendix A](#).

During the period of January 1 to March 31, 2004, the remediation system influent and effluent at the Northeast Site, as well as selected recovery wells at the Northeast Site, were also sampled. Analytical results for remediation system VOCs, iron, and hardness (as CaCO₃) sampling are provided in [Appendix B](#). These reports also include the results of the special barium sampling performed at the request of the STAR Center to assist them in determining the source of barium in the STAR Center discharge. Laboratory reports for the three recovery wells and the two effluent samples from the WWNA are provided in [Appendix C](#).

All samples were collected in accordance with the Stoller *Sampling Procedures for the Young - Rainey STAR Center* (DOE 2002), using FDEP procedures. All samples collected were submitted to Accutest Laboratories for analysis. Accutest is accredited by the Florida Department of Health in accordance with the National Environmental Laboratory Accreditation Conference, certification number E83510. All but two of the monitoring wells were micropurged using a dedicated bladder pump, and sampling was performed when the field measurements stabilized. The remaining wells were conventionally purged with a peristaltic pump or a 2-inch diameter stainless-steel submersible pump; purging was considered complete once field measurements had stabilized. Extraction wells were sampled using their associated flowlines with dedicated sampling ports. [Table 6](#) lists field measurements of pH, specific conductance, dissolved oxygen,

oxidation-reduction potential, turbidity, and temperature recorded at the time the samples were collected. Measurements were made with a flow cell and a multiparameter instrument.

3.2 Analytical Results

3.2.1 Northeast Site (PIN15)

Concentrations of contaminants of potential concern (COPCs) in samples collected from wells at the Northeast Site (PIN15) are included in [Table 7](#), which also shows the previous four quarters of data for comparison purposes. [Figure 7](#) shows the total COPCs (TCOPCs) concentrations.

No COPCs were detected in the five monitoring wells listed below:

PIN15-0568 PIN15-0570 PIN15-0571 PIN15-0572 PIN15-M31S

The 14 monitoring and recovery wells listed below contained detectable COPCs:

PIN15-0536	PIN15-0569	PIN15-RW03	PIN15-RW13	PIN15-RW16
PIN15-0537	PIN15-M31D	PIN15-RW06	PIN15-RW14	PIN15-RW17
PIN15-0538	PIN15-M34D	PIN15-RW12	PIN15-RW15	

TCOPCs concentrations ranged from below detection limit to 252,740 micrograms per liter ($\mu\text{g/L}$). Well PIN15-RW06 contained the highest TCOPC value, and the COPC compound detected at the highest concentration was methylene chloride at 157,000 $\mu\text{g/L}$.

3.2.2 Building 100 Area (PIN06, PIN09, PIN10, PIN12, and PIN21)

TCOPCs concentrations in samples collected from wells sampled at the Building 100 Area are included in [Table 8](#), which also shows the previous four quarters of data for comparison purposes. [Figure 8](#) shows the TCOPCs concentrations.

No COPCs were detected in the three monitoring wells listed below:

PIN12-0513 PIN12-S73B PIN12-S73D

Samples from the five monitoring and recovery wells listed below contained COPCs at detectable levels. They are:

PIN12-0514	PIN12-0526	PIN12-RW01	PIN12-RW02	PIN12-S73C
------------	------------	------------	------------	------------

TCOPCs concentrations ranged from below detection limits to 10,013.6 $\mu\text{g/L}$. The COPC compound detected at the highest concentration was trichloroethene at 5,840 $\mu\text{g/L}$ in PIN12-RW01.

3.2.3 Wastewater Neutralization Area (PIN18)

The volatile COPC at the WWNA is vinyl chloride. None was detected during quarterly sampling.

Arsenic samples were collected from seven monitoring wells and three recovery wells. Results of arsenic samples from the three recovery wells that are sampled monthly are presented in Table 1. Concentrations of COPCs from quarterly sampling are listed in [Table 9](#) and TCOPCs (arsenic and vinyl chloride) are shown in [Figure 9](#).

No arsenic was detected in the two wells listed below.

PIN18-0521 PIN18-0523

The eight monitoring and recovery wells listed below had detectable arsenic concentrations.

PIN18-0500	PIN18-0502	PIN18-0525	PIN18-RW03
PIN18-0522	PIN18-0524	PIN18-RW02	PIN18-RW0501

The highest concentration of arsenic detected was 131 µg/L in PIN18-RW0501 (note that the units for arsenic have changed from mg/L to µg/L so that TCOPCs for this area could be calculated using consistent units).

3.3 Quality Assurance/Quality Control

Stoller checked the analytical results from the new analytical laboratory, Accutest, for quality assurance/quality control (QA/QC) through duplicate samples and trip blanks. Detected analytes (VOCs and arsenic) for each duplicate sample are listed in [Table 10](#). The duplicate sample results were compared and the relative percent differences (RPDs) between the results were calculated. There were two duplicates analyzed for VOCs during quarterly sampling, and one duplicate analyzed for arsenic.

A total of 73 duplicate analyses for individual analytes were performed. One sample duplicate pair, PIN18-0522/-0610 failed to meet the guidance criteria for arsenic. The criteria for metals was changed this quarter based on EPA guidance for duplicate metals sampling. Now metals “Fail” when the duplicate metal samples are more than 5 times the reporting limit and the RPD is greater than 20 percent. For metals samples that are less than 5 times the reporting limit the difference must be less than plus or minus the reporting limit (this includes the case when only one of the duplicate/sample values is less than 5 times the reporting limit). All VOC samples met the guidance criteria that the RPD results should be within the range of plus-or-minus 30 percent when the concentration is greater than five times the detection limit. All data passed QA/QC criteria at a Class A level, indicating that all data may be used for quantitative and qualitative purposes.

Duplicate samples should be collected at a frequency of one duplicate for every 20 or fewer samples. There were 30 ground water samples analyzed for VOCs, with two duplicate VOC samples collected. There were 10 ground water samples analyzed for arsenic, with one duplicate sample. The duplicate requirements for this sampling event were met.

During the quarterly sampling event two trip blanks and one equipment blank were submitted for analysis. During data validation it was found that the analytical report for one of the trip blanks showed 147 µg/L of vinyl chloride and 150 µg/L of cis-1,2-DCE. The laboratory was notified of the problem, and it was determined that the results were due to a laboratory error, in which the trip blank and a monitoring well sample were switched. Once the problem was identified, the

laboratory corrected the hardcopy and electronic reports to show the correct results, which were non-detect for this trip blank. The other trip blank and the equipment blank were also non-detect for all analytes.

The previous laboratory had a persistent problem with estimated quantities of methylene chloride in the blanks. This was not seen this quarter with the new laboratory.

Field data validation showed that stabilization criteria were not met at four of the 66 wells measured for field parameters. No significant deficiencies were found during validation of the field data collected during quarterly sampling.

A data validation software module for identifying and tracking anomalous ground water data points within the SEEPro database was implemented this quarter. The software prints a report of analytical results that fall outside of historical minimum or maximum values. Two anomalies requiring follow-up actions were found. These are discussed in [Table 11](#).

4.0 Treatment System and Recovery Well Performance

4.1 Northeast Site and Building 100

The Northeast Site ground water treatment system and associated wellfields were continuously operational from January 5 through March 31, 2004. The treatment system and wellfields were shutdown from December 19, 2003, to January 5, 2004, as a result of STAR Center shutdown for maintenance activities. Start-up took place the morning of January 5.

[Table 12](#) provides a summary of analytical results for samples collected at the Northeast Site treatment system during this quarter. Treatment system effluent samples were analyzed for VOCs and the effluent discharge volume was recorded to comply with the Pinellas County wastewater permit. In the effluent samples, all volatile organic aromatic concentrations were under the Pinellas County regulatory limit of 50 µg/L.

FeRemede® continues to be utilized to effectively control the deposition of iron and hardness salts. The application of sodium hypochlorite as a microbiocide has continued to successfully control biological growth in the air stripper tower (AST).

From January 5 through March 31, 2004, 2,242,490 gallons of ground water were recovered from the Northeast Site and Building 100 recovery wells. The volume of recovered ground water treated by the Northeast Site treatment system since its startup in June 1997 through March 2004 is presented in [Figure 10](#). [Figures 11, 12, and 13](#) present the monthly volume of ground water recovered during January through March 2004 from the Northeast Site recovery wells.

The monthly ground water recovery from January through March 2004 for the Building 100 recovery wells is presented in [Figures 14, 15, and 16](#), respectively.

Total percent on-time for the Northeast Site AST is illustrated in [Figure 17](#). On-time for the AST for this quarter was not 100 percent for December and January due to the planned shutdown.

However, there were no unplanned shutdowns during this time. Historical summary of ground water recovery volume at the Northeast Site and Building 100 is shown in [Table 13](#).

[Table 14](#) presents the calculated mass of selected analytes recovered with the Northeast Site treatment system for each month of this reporting period. These monthly results are based on the measured system influent concentration and influent ground water flow.

4.2 Wastewater Neutralization Area

The ground water recovery system was shutdown from December 19, 2003, to January 5, 2004, as a result of STAR Center shutdown for maintenance activities.

Two WWNA recovery wells (PIN18-RW02 and -RW03) are targeted to each produce approximately 2.5 gallons per minute (gpm) continuously with an electrical submersible pump set in each well at approximately 12 ft below land surface (bls). During this quarter, production at RW02 was lower than the targeted flow. Investigation of this condition is planned for the next quarter. The third recovery well, PIN18-RW0501 is operating at approximately 0.8 gpm with a submersible electric pump installed at 15 ft below top of casing. Ground water recovery from PIN18-RW0501 was started on June 11, 2003. To date, there have been no exceedances of the WWNA discharge permit limits for arsenic.

The effluent ground water from each well is combined into a common header pipe and discharged into the industrial wastewater-receiving tank at the IWNF. During this quarter, 585,162 gallons of ground water were recovered from the subsurface.

5.0 Conclusions

The following conclusions are based on the quarterly sampling conducted in January 2004.

- The surficial ground water flow rate and flow direction throughout the site were similar to those observed in previous quarters.
- The highest concentration of COPCs was detected at the Northeast Site in well PIN15-RW06.
- The operation of the Northeast Site recovery wells appears to be controlling plume movement along the southern perimeter of the Northeast Site.

6.0 Tasks to be Performed Next Quarter

The following tasks are expected to be conducted during the next quarterly period (April through June 2004):

- The annual sampling event will occur in April 2004.
- Monthly and mid-monthly sampling and analysis of ground water will continue in order to provide compliance and system operations data.

- Northeast Site recovery wells and treatment system will be decommissioned in preparation for NAPL Area B remediation.
- New air stripper will be installed at the Northeast Site that will treat effluent from Building 100.
- Utilization of the dedicated bladder pumps for quarterly sampling using the micropurging technique will continue.
- Continue preparations for NAPL Area B treatment system construction in July 2004.

7.0 References

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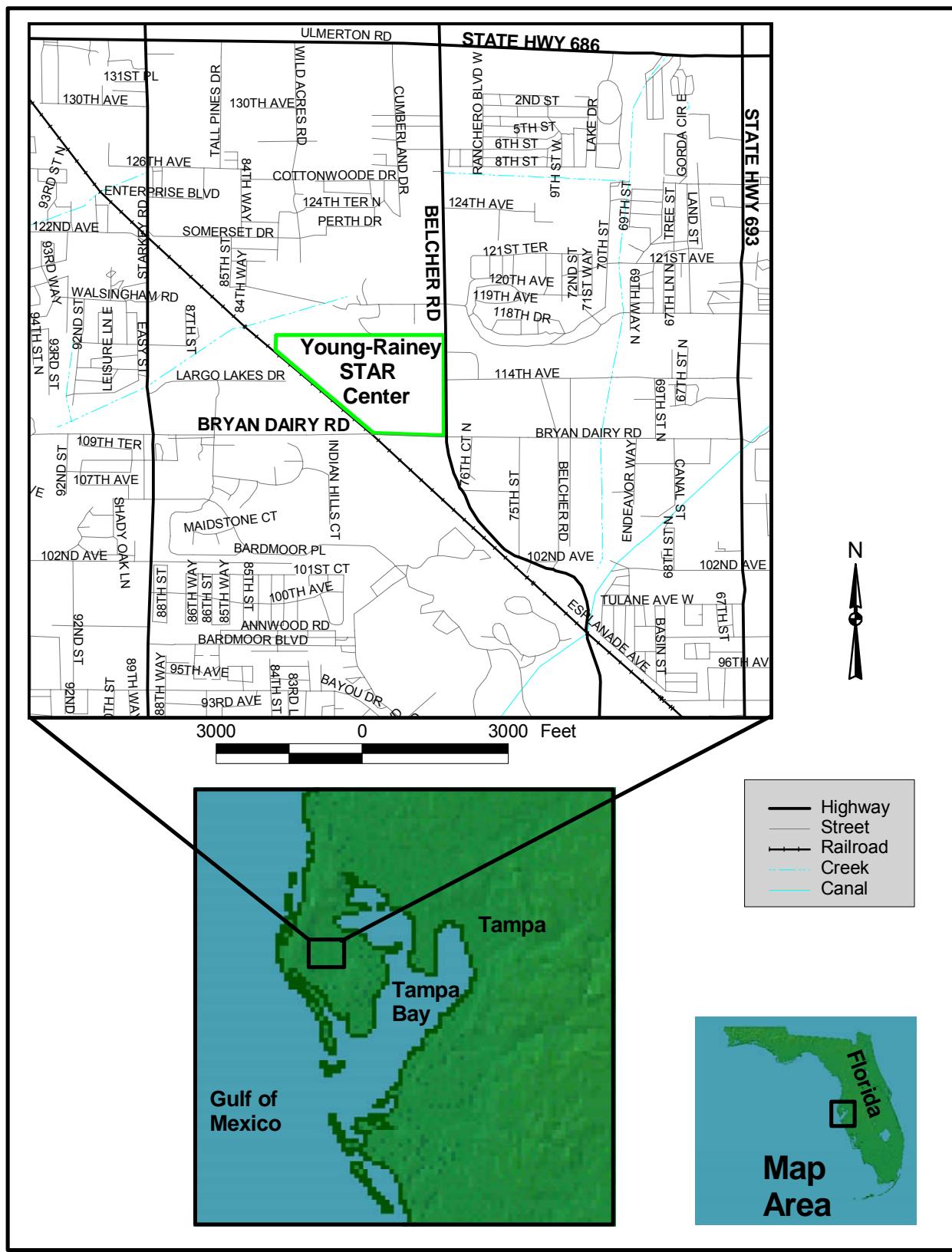


Figure 1. Young - Rainey STAR Center Location

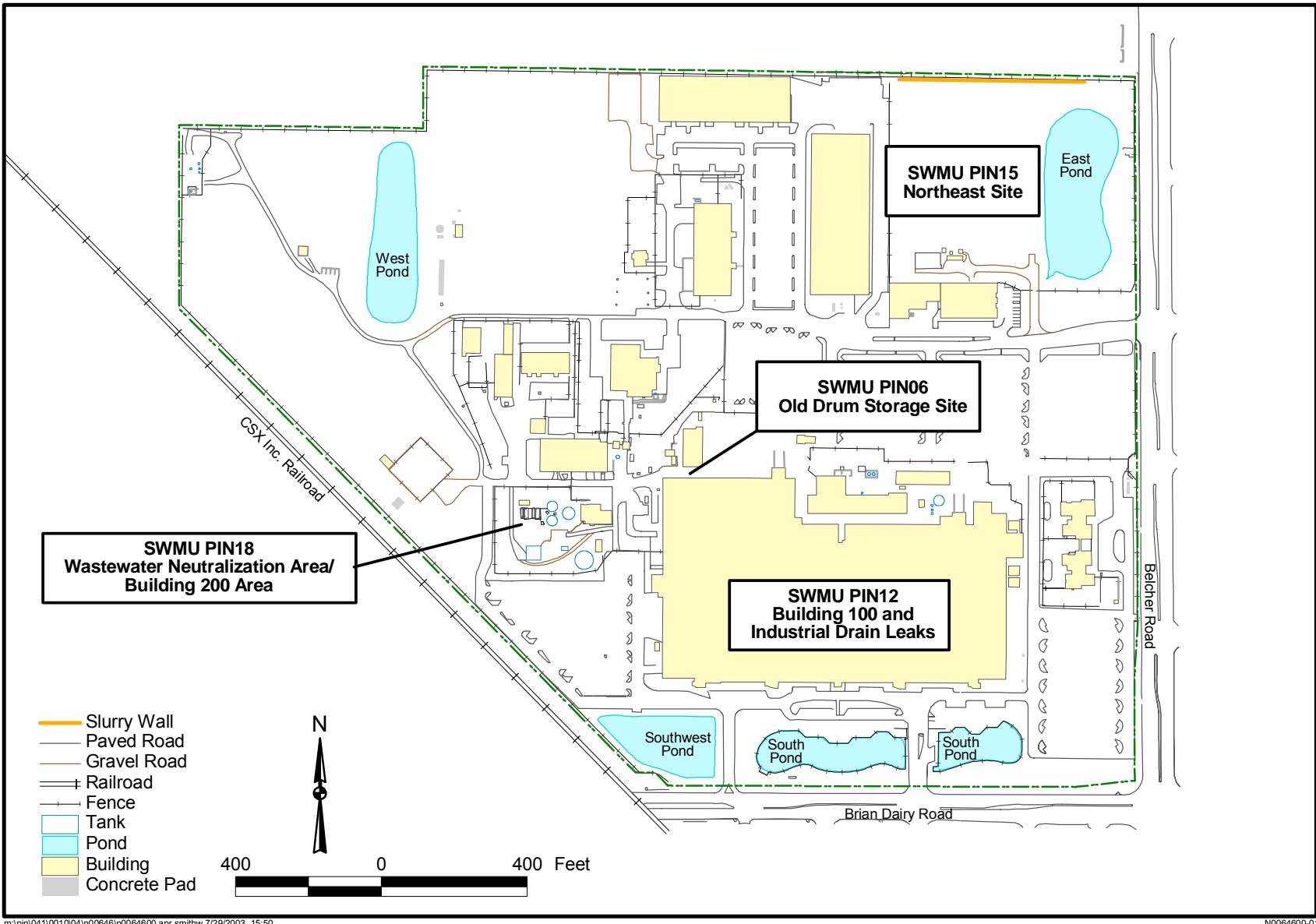


Figure 2. Location of STAR Center Solid Waste Management Units (SWMUs)

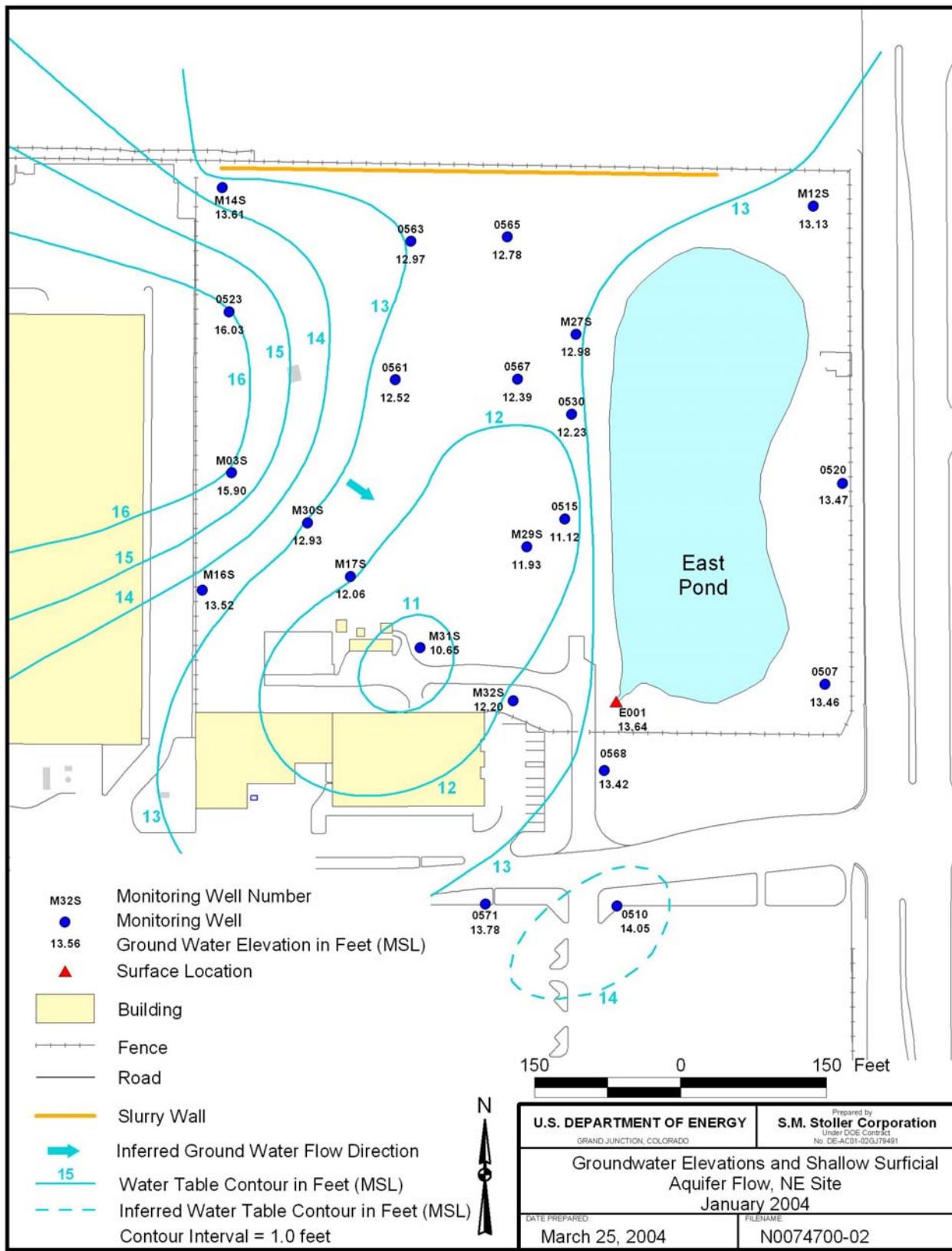


Figure 3. Ground Water Elevations and Shallow Surficial Aquifer Flow, Northeast Site, January 2004

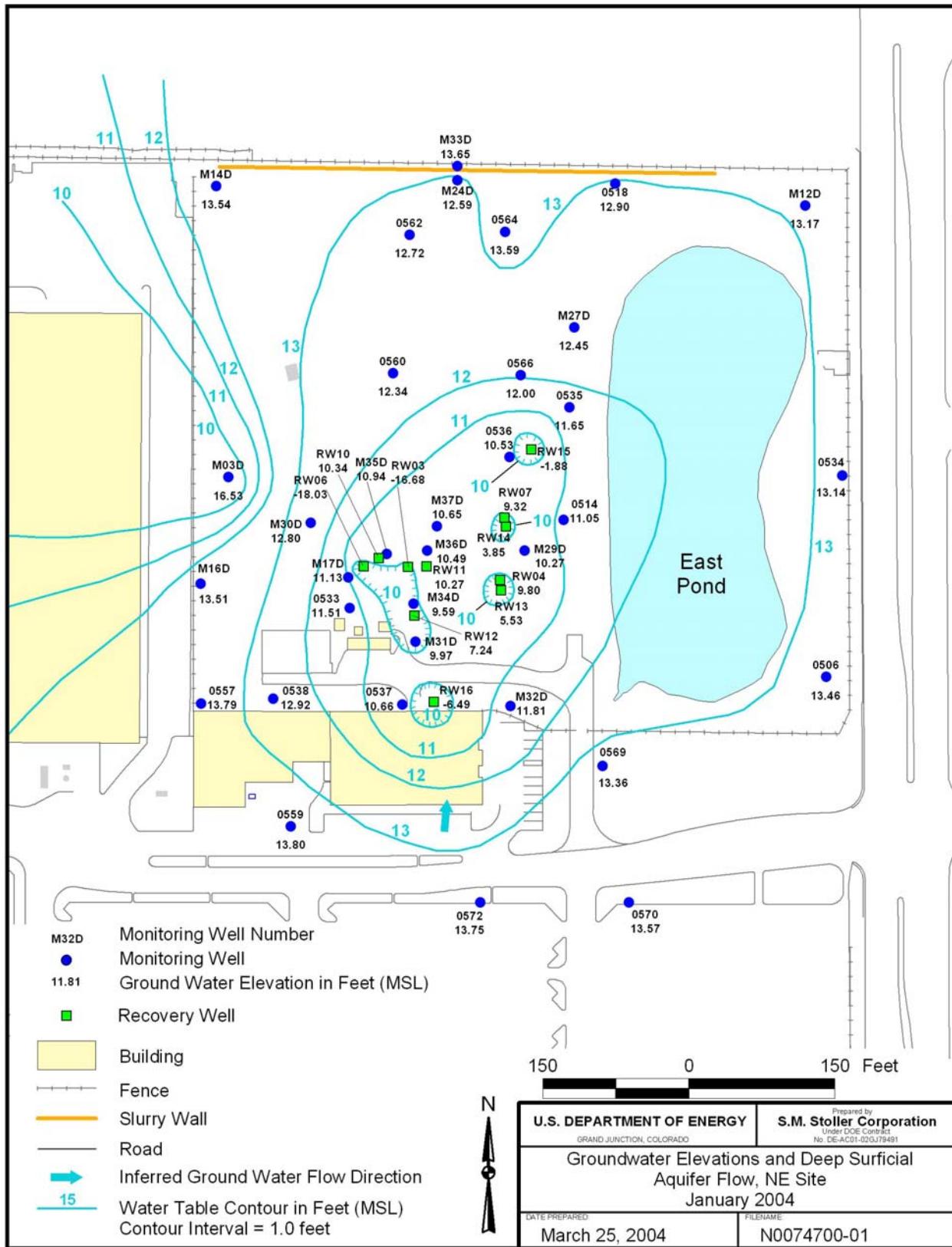


Figure 4. Ground Water Elevations and Deep Surficial Aquifer Flow, Northeast Site, January 2004

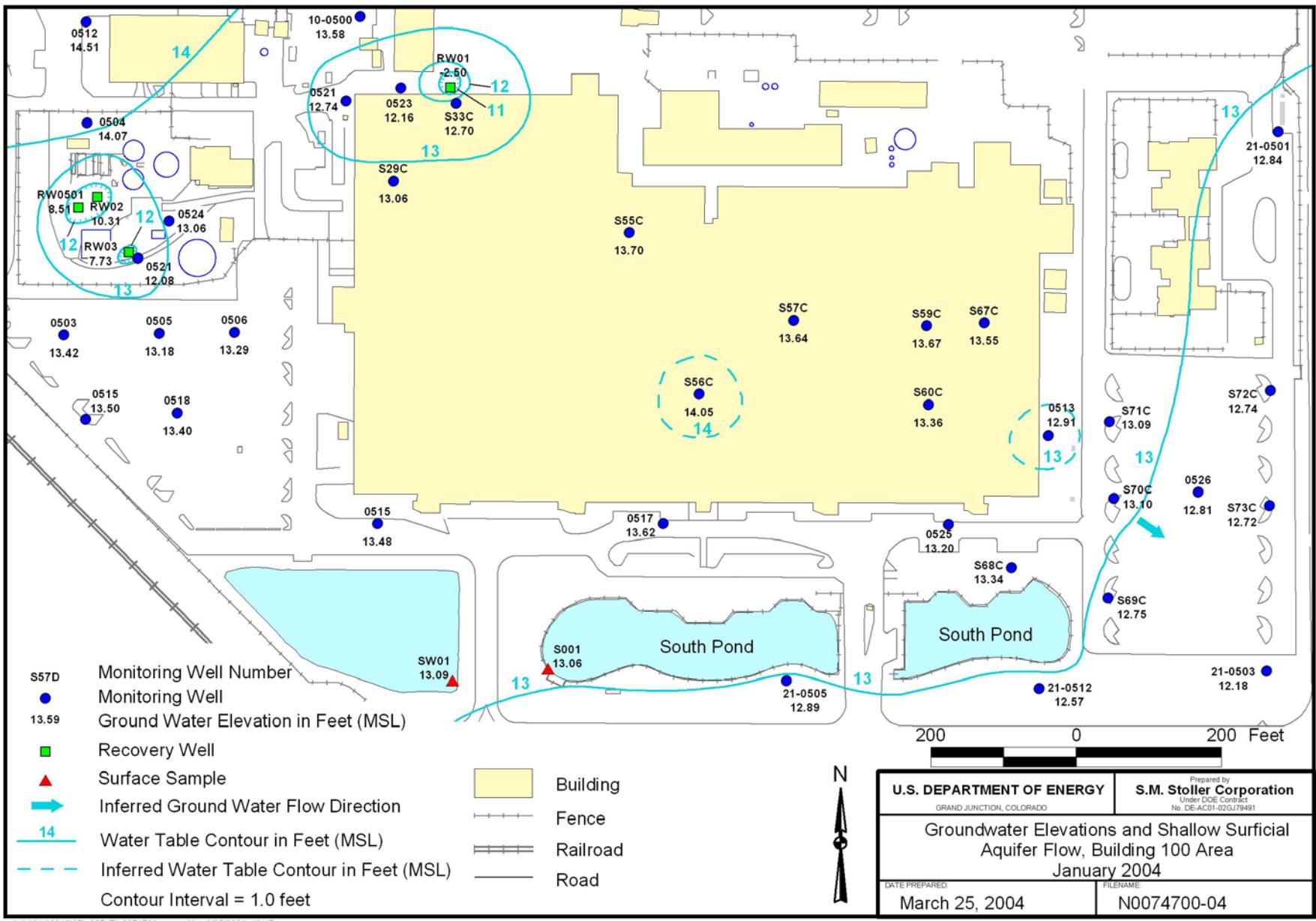


Figure 5. Ground Water Elevations and Shallow Surficial Aquifer Flow, Building 100 Area, January 2004

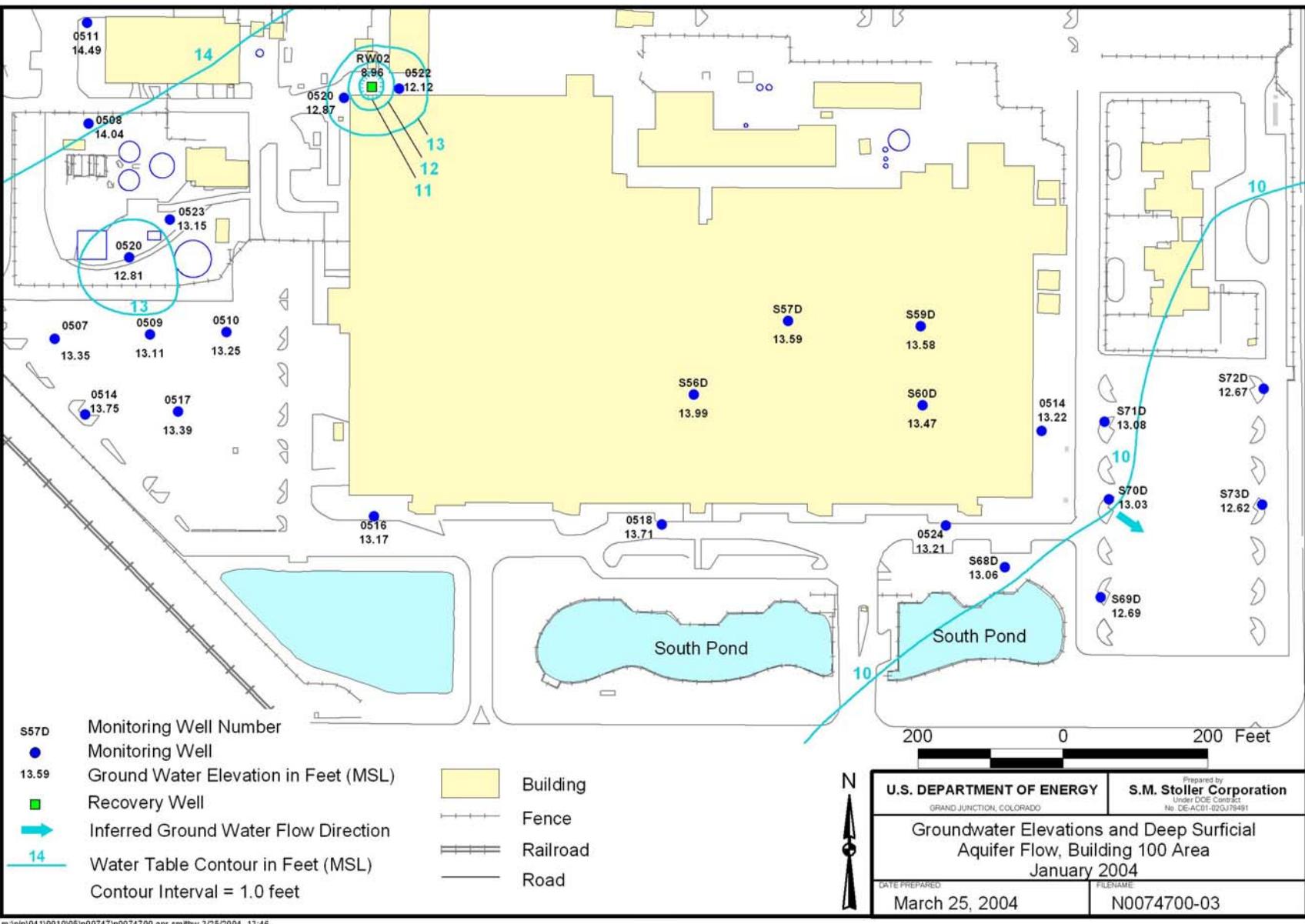


Figure 6. Ground Water Elevations and Deep Surficial Aquifer Flow, Building 100 Area, January 2004

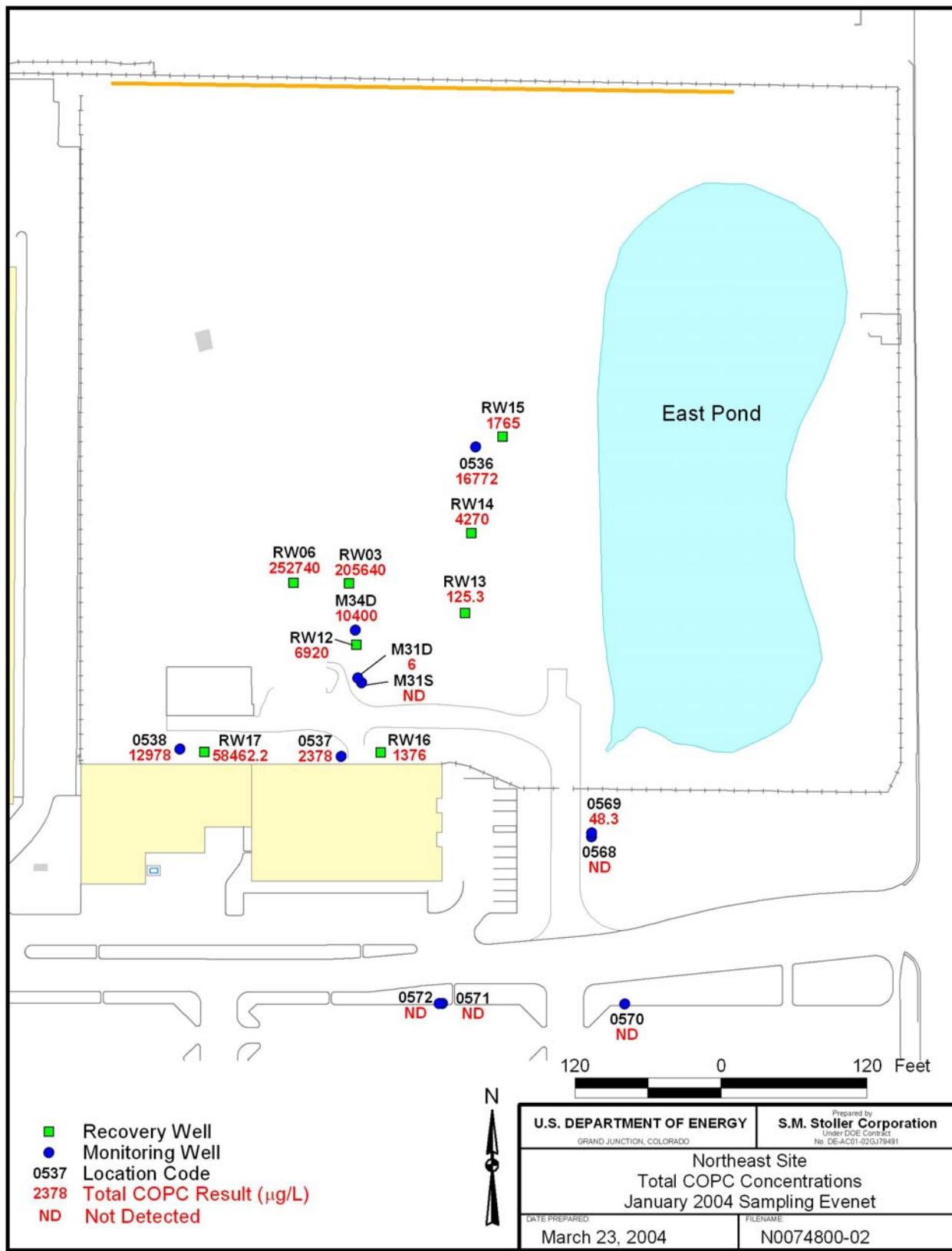


Figure 7. Northeast Site Total COPC Concentrations January 2004 Sampling Event

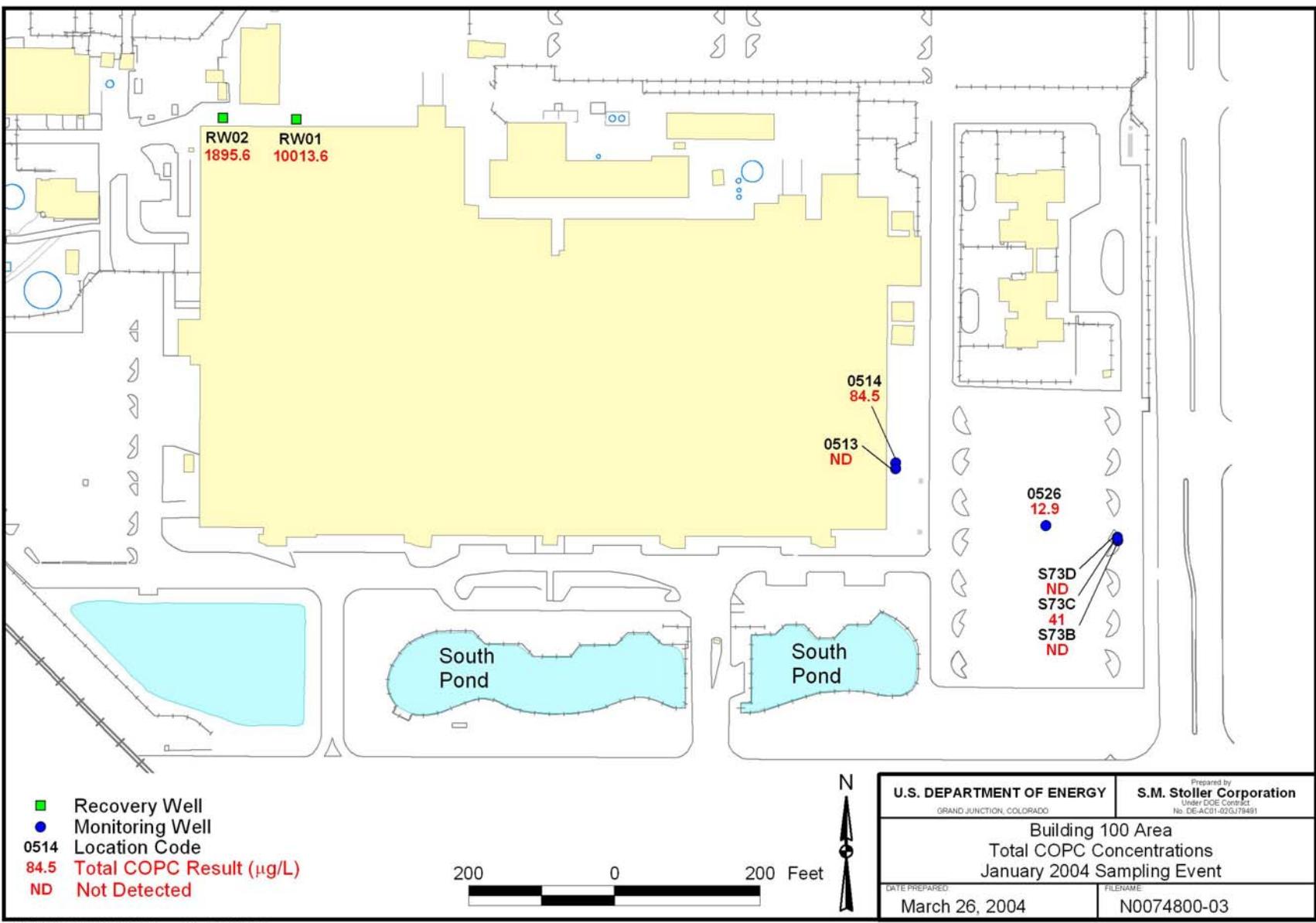


Figure 8. Building 100 Area Total COPC Concentrations January 2004 Sampling Event

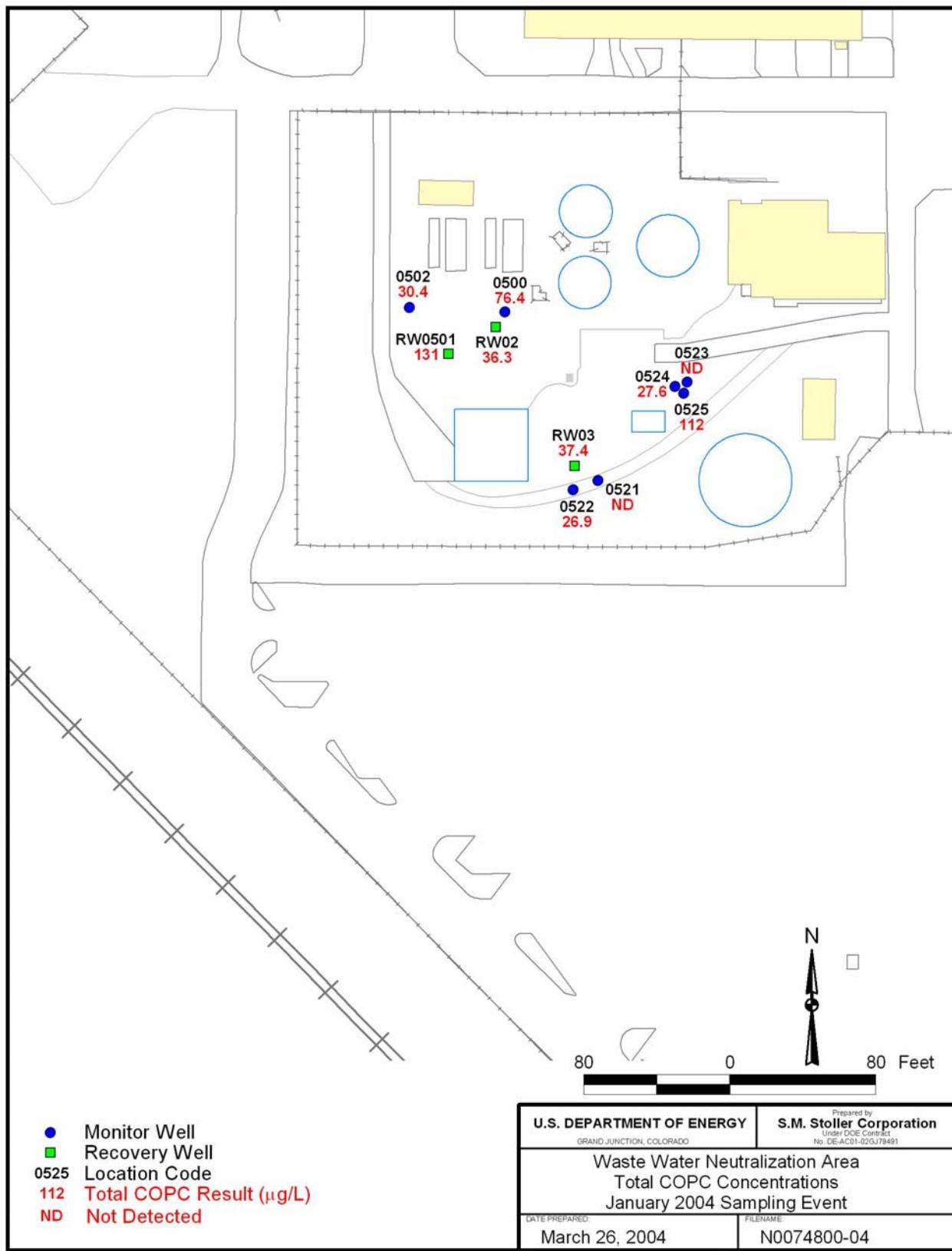


Figure 9. WWNA Total COPC Concentrations January 2004 Sampling Event

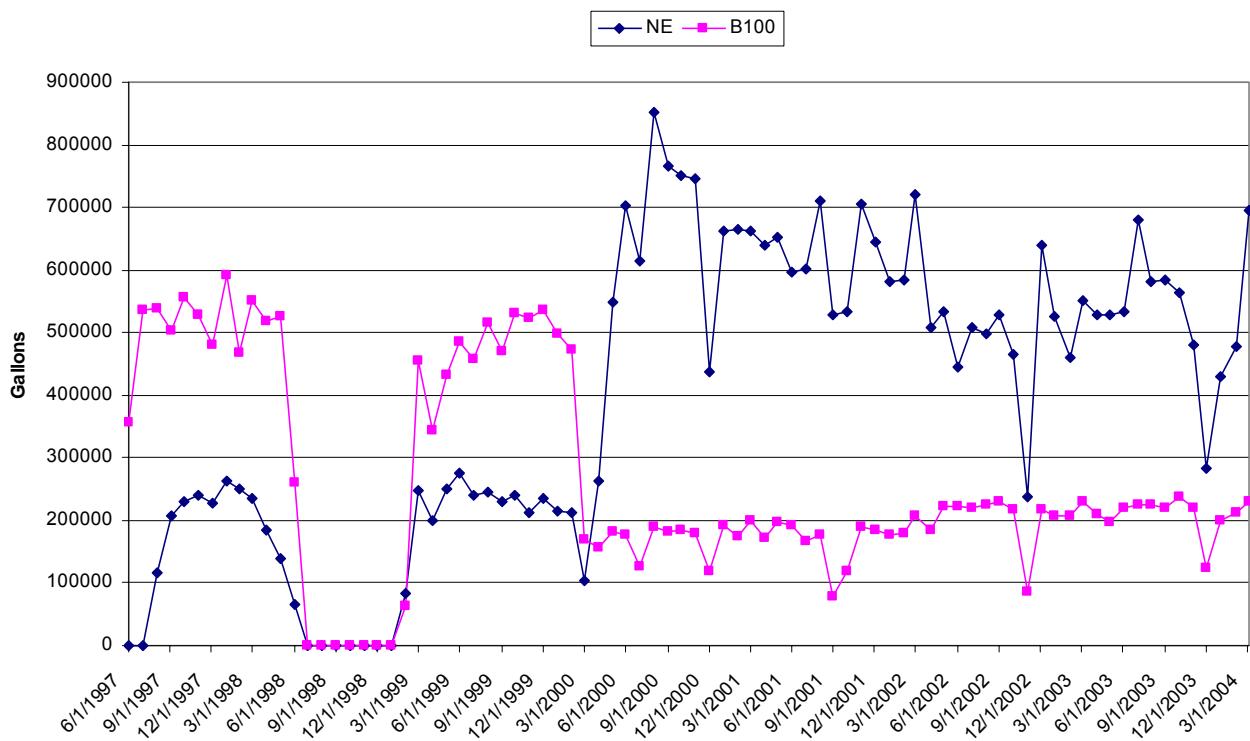


Figure 10. Historical Northeast Site and Building 100 Ground Water Recovery

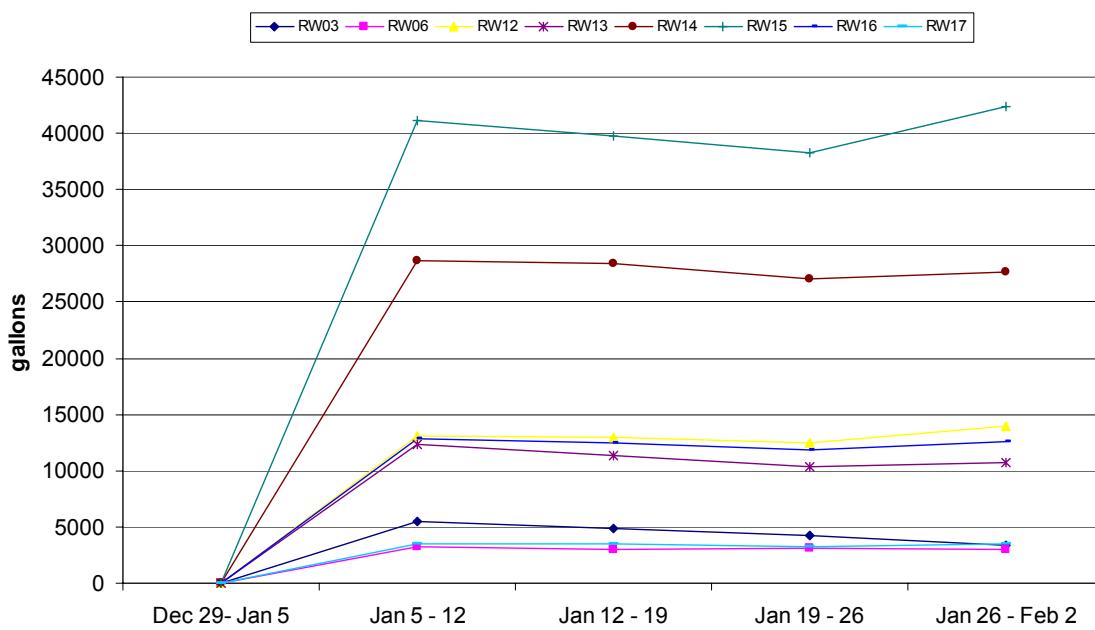


Figure 11. January 2004 Northeast Site (Individual Wells) Ground Water Recovery

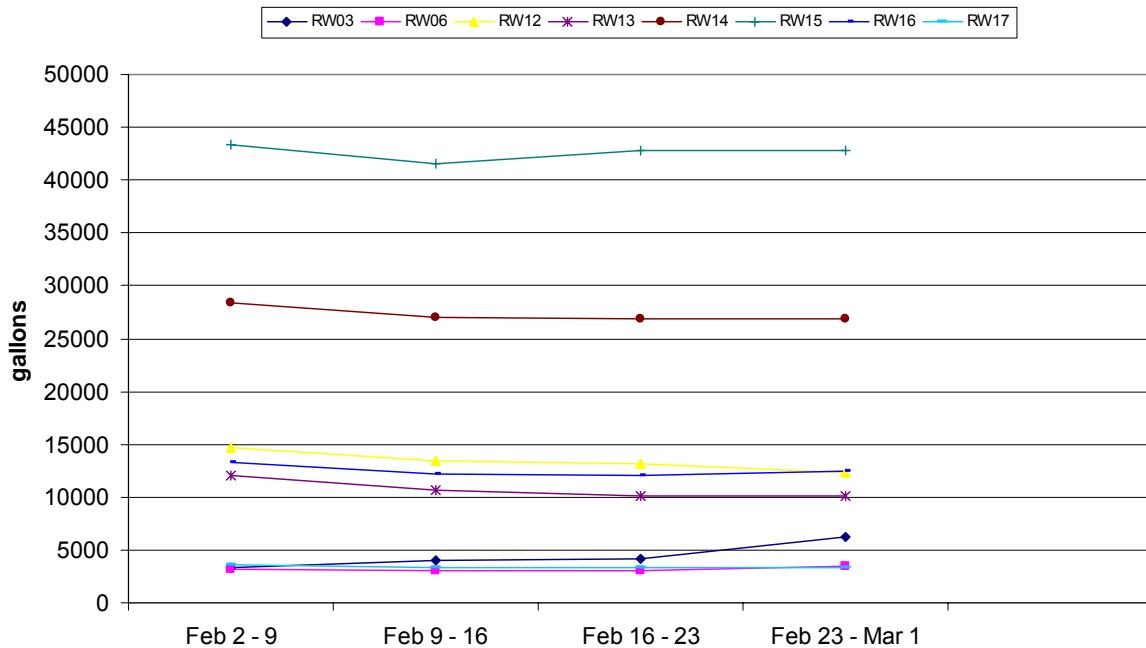


Figure 12. February 2004 Northeast Site (Individual Wells) Ground Water Recovery

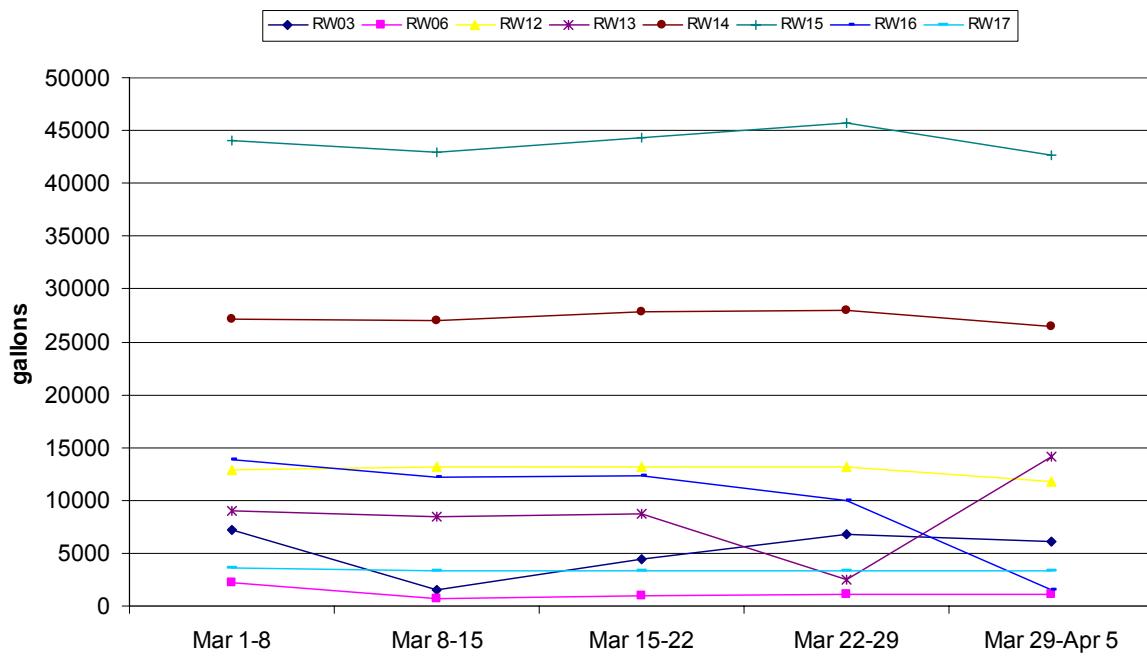


Figure 13. March 2004 Northeast Site (Individual Wells) Ground Water Recovery

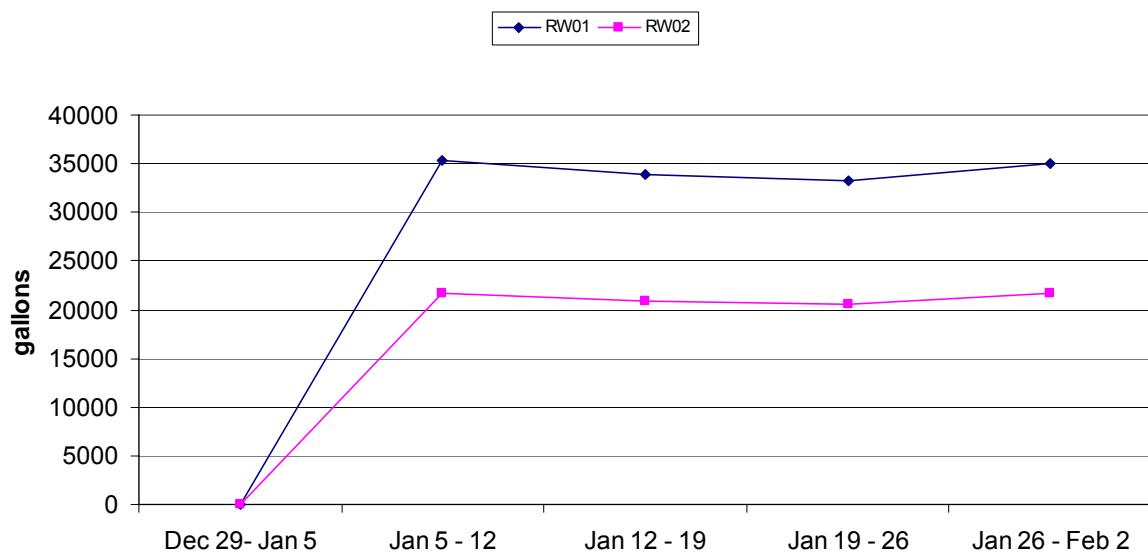


Figure 14. January 2004 Building 100 Ground Water Recovery

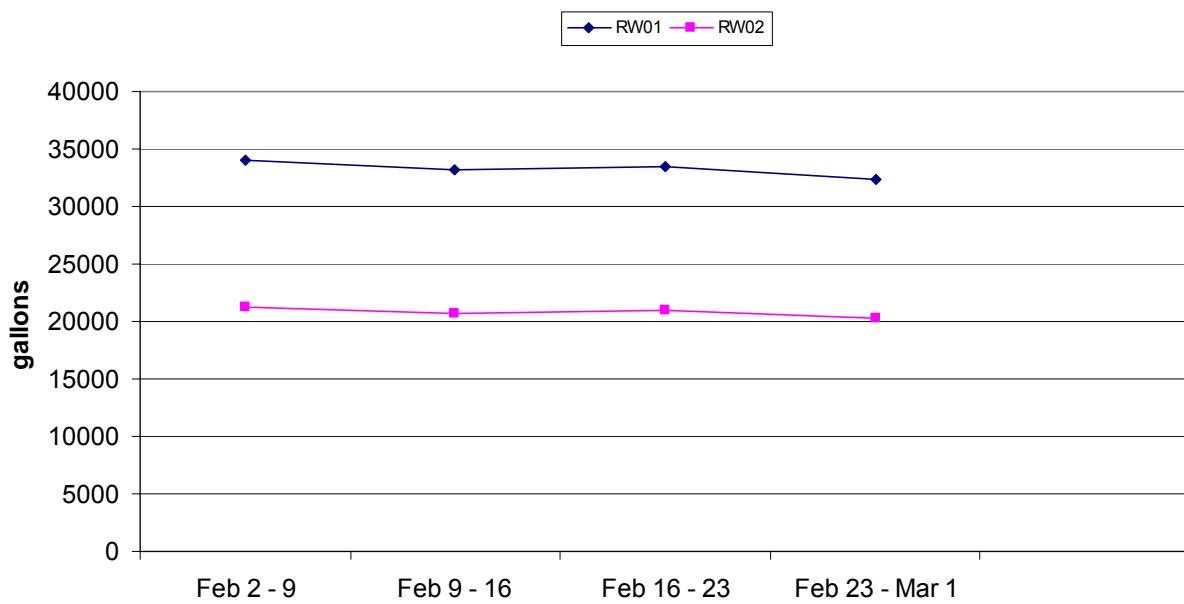


Figure 15. February 2004 Building 100 Ground Water Recovery

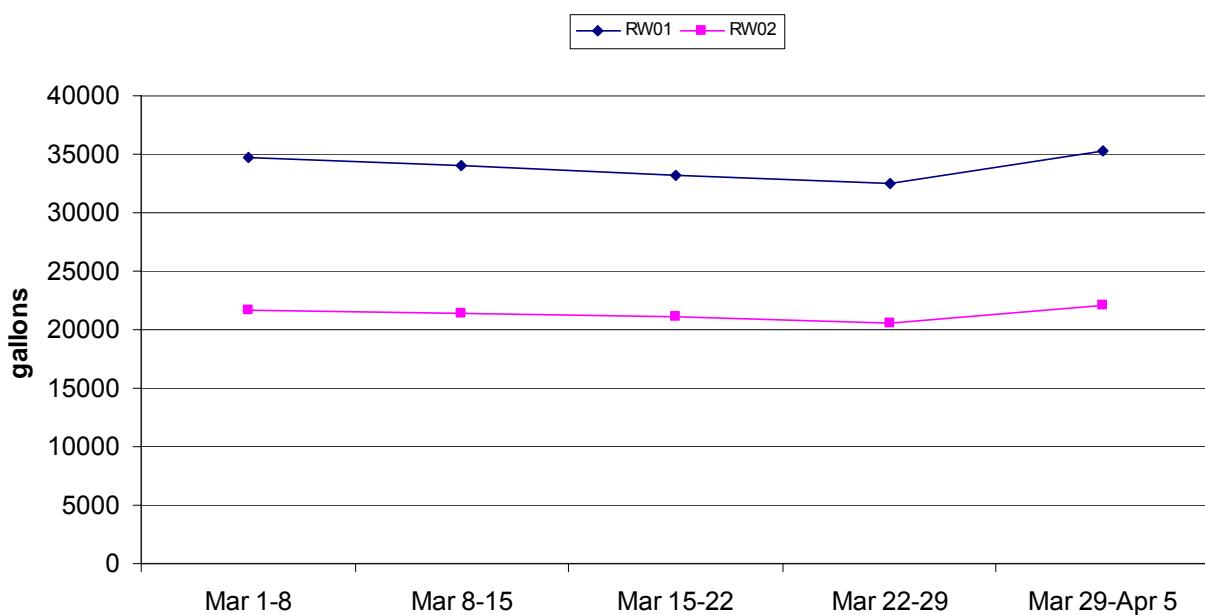


Figure 16. March 2004 Building 100 Ground Water Recovery

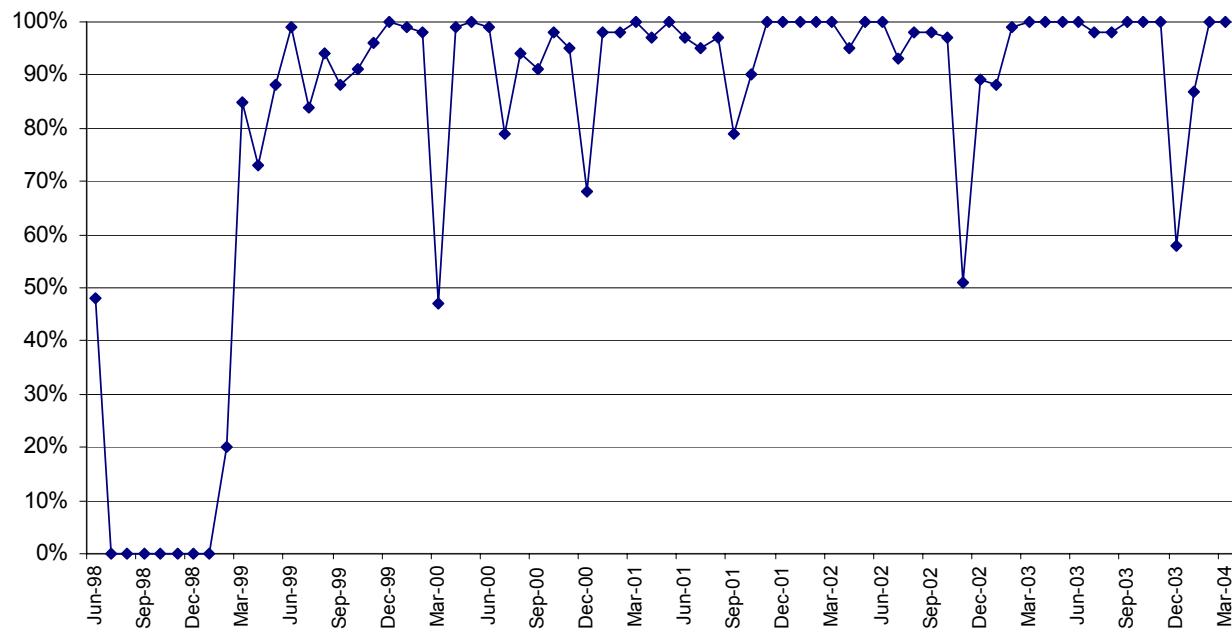


Figure 17. Historical Northeast Site Air Stripper—Percent Time On-Line

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**Table 1. WWNA Recovery Well Startup Monitoring Arsenic Concentrations
(reported in milligrams per liter)**

Sample Date	RW02	RW03	RW0501 ^a	RW02/RW03/RW0501 combined effluent
2/26/2001	0.08	0.1		0.095
2/27/2001	0.074	0.1		0.091
2/28/2001	0.074	0.091		0.074
3/1/2001	0.084	0.096		0.088
3/2/2001	0.088	0.095		0.089
3/5/2001	0.13	0.22		0.1
3/12/2001	0.37	0.11		0.13
3/19/2001	0.42	0.12		0.12
3/26/2001	0.15	0.16		0.8
4/2/2001	0.18	0.12		0.13
4/16/2001	0.18	0.17		0.13
5/1/2001	0.16	0.071		0.1
5/15/2001	0.14	0.15		0.093
5/30/2001	0.13	0.07		0.16
6/11/2001	0.11	0.068		0.083
6/26/2001	0.13	0.067		0.096
7/9/2001	0.14	0.054		0.087
7/23/2001	0.14	0.25		0.074
8/6/2001	0.11	0.2		0.18
8/21/2001	0.13	0.074		0.084
9/5/2001	0.13	0.054		0.091
10/8/2001	0.11	0.14		0.07
11/6/2001	0.095	0.053		0.076
12/7/2001	0.13	0.081		0.084
1/10/2002	0.11	0.081		0.076
2/5/2002	0.11	0.055		0.075
3/6/2002	0.12	0.05		0.076
4/2/2002	0.084	0.055		0.069
4/15/2002	--	0.049		--
4/16/2002	0.078	--		--
5/8/2002	0.11	0.048		0.071
6/4/2002	0.095	0.078		0.058
7/3/2002	0.16	0.056		0.074
7/15/2002	0.098	0.057		--
8/8/2002	0.0036J	0.11		0.065
9/10/2002	0.12	0.097		0.07
10/3/2002	0.097	0.054		0.071
11/22/2002	0.11	0.067		0.057
12/11/2002	0.11	0.056		0.07
1/2/2003	0.097	0.049		0.064
1/13/2003	0.082	0.061		--
2/4/2003	0.12	0.047		0.063
3/4/2003	0.079	0.19		0.059
4/7/2003	0.081	0.071		0.054
5/5/2003	0.074	0.038		0.052

*Table 1 (continued). WWNA Recovery Well Startup Monitoring Arsenic Concentrations
(reported in milligrams per liter)*

Sample Date	RW02	RW03	RW0501 ^a	RW02/RW03/RW0501 combined effluent
6/3/2003	0.089	0.042		0.054
6/11/2003	0.07	0.044	0.42	0.073
6/12/2003	0.074	0.048	0.32	0.066
6/13/2003	0.072	0.075	0.21	0.066
6/16/2003	0.071	0.3	0.28	0.063
6/17/2003	0.068	0.11	0.26	0.066
6/24/2003	0.07	0.039	0.18	0.071
7/1/2003	0.059	0.038	0.18	0.064
7/10/2003	0.062	0.04	0.17	0.058
7/11/2003	0.056	0.034	0.24	0.054
7/14/2003	0.15	0.04	0.16	0.065
7/15/2003	0.071	0.038	0.19	0.055
7/16/2003	0.11	0.038	0.18	0.051
7/22/2003	0.15	0.041	0.16	0.054
7/31/2003	0.056	0.036	0.17	0.059
8/6/2003	0.069	0.041	0.16	0.062
9/3/2003	0.092	0.041	0.19	0.054
10/2/2003	0.13	0.032	0.14	0.054
11/5/2003	0.054	0.053	0.18	0.056
12/3/2003	0.076	0.044	0.18	0.062
1/7/2004	0.0363	0.0374	0.131	0.0467
2/3/2004	0.0433	0.0665	1.02	0.0481
3/3/2004	0.169	0.0435	0.142	0.0429

^aRecovery well RW0501 was brought online on June 11, 2003.

-- = Not Measured.

J = Estimated value, result is between the reporting limit and the method detection limit.

Table 2. Water-Level Data at the STAR Center

Location	Measurement		Water Depth From Land Surface (ft)	Ground Water Elevation (ft NGVD)
	Date	Time		
PIN06			Old Drum Storage Site	
0500	1/13/2004	13:08	4.76	13.24
0501	1/13/2004	13:05	5.25	13.05
PIN09			Incinerator Site	
0500	1/13/2004	13:11	4.49	13.48
PIN10			Incinerator Ditch	
0500	1/13/2004	13:13	4.32	13.58
PIN12			Industrial Drain Leaks Bldg 100	
0508	1/13/2004	12:45	4.35	14.01
0509	1/13/2004	12:42	4.25	13.79
0510	1/13/2004	12:49	5.11	12.95
0511	1/13/2004	09:51	4.5	13.3
0512	1/13/2004	09:54	3.43	13.38
0513	1/13/2004	13:55	5.59	12.91
0514	1/13/2004	13:56	5.28	13.22
0515	1/13/2004	10:07	4.42	13.48
0516	1/13/2004	10:06	4.83	13.17
0517	1/13/2004	10:20	4.28	13.62
0518	1/13/2004	10:19	4.23	13.71
0520	1/13/2004	13:09	5.14	12.87
0521	1/13/2004	13:10	5.31	12.74
0522	1/13/2004	13:02	6.08	12.12
0523	1/13/2004	13:03	6	12.16
0524	1/13/2004	10:35	4.2	13.21
0525	1/13/2004	10:36	4.22	13.2
0526	1/13/2004	13:30	4.01	12.81
0527	1/13/2004	13:37	11.97	6.1
0528	1/13/2004	09:33	12.11	5.49
RW01	1/13/2004	12:56	20.75	-2.5
RW02	1/13/2004	13:04	9.37	8.96
S29C	1/13/2004	10:02	5.45	13.06
S30B	1/13/2004	10:15	5.52	12.99
S31B	1/13/2004	09:58	5.28	13.23
S32B	1/13/2004	10:00	5.57	12.94
S33C	1/13/2004	10:05	5.81	12.7
S35B	1/13/2004	10:23	5.28	13.23
S36B	1/13/2004	09:53	5.18	13.33
S37B	1/13/2004	10:08	5.48	13.03
S55B	1/13/2004	10:31	4.81	13.7
S55C	1/13/2004	10:32	4.81	13.7
S56B	1/13/2004	11:16	4.54	13.97
S56C	1/13/2004	11:16	4.46	14.05
S56D	1/13/2004	11:17	4.52	13.99
S57B	1/13/2004	10:37	4.81	13.7
S57C	1/13/2004	10:37	4.87	13.64

Table 2 (continued). Water-Level Data at the STAR Center

Location	Measurement		Water Depth From Land Surface (ft)	Ground Water Elevation (ft NGVD)
	Date	Time		
S57D	1/13/2004	10:38	4.92	13.59
S59B	1/13/2004	09:31	4.86	13.65
S59C	1/13/2004	09:31	4.84	13.67
S59D	1/13/2004	09:32	4.93	13.58
S60B	1/13/2004	09:24	5.06	13.45
S60C	1/13/2004	09:25	5.15	13.36
S60D	1/13/2004	09:26	5.04	13.47
S67C	1/13/2004	09:40	4.92	13.55
S68B	1/13/2004	10:45	4.69	13.21
S68C	1/13/2004	10:44	4.56	13.34
S68D	1/13/2004	10:46	4.84	13.06
S69B	1/13/2004	13:16	3.26	12.74
S69C	1/13/2004	13:15	3.25	12.75
S69D	1/13/2004	13:14	3.31	12.69
S70B	1/13/2004	13:55	3.46	13.24
S70C	1/13/2004	13:56	3.6	13.1
S70D	1/13/2004	13:56	3.67	13.03
S71B	1/13/2004	13:49	5.14	13.26
S71C	1/13/2004	13:50	5.31	13.09
S71D	1/13/2004	13:51	5.32	13.08
S72B	1/13/2004	13:35	5.36	12.84
S72C	1/13/2004	13:37	5.46	12.74
S72D	1/13/2004	13:39	5.53	12.67
S73B	1/13/2004	13:24	4.31	12.69
S73C	1/13/2004	13:26	4.28	12.72
S73D	1/13/2004	13:28	4.38	12.62
TE03	1/13/2004	09:20	3.67	13.33
PIN15			Northeast Site	
0506	1/13/2004	09:30	3.54	13.46
0507	1/13/2004	09:31	3.54	13.46
0510	1/13/2004	11:15	3.47	14.05
0513	1/13/2004	09:23	11.73	5.87
0514	1/13/2004	09:35	6.45	11.05
0515	1/13/2004	09:36	6.38	11.12
0518	1/13/2004	09:43	4.9	12.9
0520	1/13/2004	09:27	3.73	13.47
0523	1/13/2004	08:54	1.97	16.03
0530	1/13/2004	09:41	5.17	12.23
0533	1/13/2004	10:49	6.49	11.51
0534	1/13/2004	09:25	4.16	13.14
0535	1/13/2004	09:42	5.95	11.65
0536	1/13/2004	09:54	7.07	10.53
0537	1/13/2004	10:16	7.94	10.66
0538	1/13/2004	10:25	5.88	12.92
0557	1/13/2004	10:26	5.31	13.79

Table 2 (continued). Water-Level Data at the STAR Center

Location	Measurement		Water Depth From Land Surface (ft)	Ground Water Elevation (ft NGVD)
	Date	Time		
0559	1/13/2004	11:23	4.99	13.8
0560	1/13/2004	09:52	5.66	12.34
0561	1/13/2004	09:51	5.48	12.52
0562	1/13/2004	09:08	5.08	12.72
0563	1/13/2004	09:09	4.83	12.97
0564	1/13/2004	09:15	3.61	13.59
0565	1/13/2004	09:16	4.42	12.78
0566	1/13/2004	09:49	5.5	12
0567	1/13/2004	09:50	5.11	12.39
0568	1/13/2004	11:05	5.08	13.42
0569	1/13/2004	11:04	5.02	13.36
0570	1/13/2004	11:12	4.41	13.57
0571	1/13/2004	11:20	3.69	13.78
0572	1/13/2004	11:18	3.76	13.75
E001	1/13/2004	09:32	2.38	13.64
M03D	1/13/2004	08:48	1.57	16.53
M03S	1/13/2004	08:49	2.2	15.9
M12D	1/13/2004	09:21	4.03	13.17
M12S	1/13/2004	09:22	4.37	13.13
M14D	1/13/2004	09:03	4.46	13.54
M14S	1/13/2004	09:04	4.39	13.61
M16D	1/13/2004	10:29	4.69	13.51
M16S	1/13/2004	10:28	4.68	13.52
M17D	1/13/2004	08:38	6.47	11.13
M17S	1/13/2004	08:39	5.44	12.06
M24D	1/13/2004	09:12	5.21	12.59
M27D	1/13/2004	09:44	5.15	12.45
M27S	1/13/2004	09:43	4.62	12.98
M29D	1/13/2004	10:01	7.33	10.27
M29S	1/13/2004	10:00	5.67	11.93
M30D	1/13/2004	08:41	5.1	12.8
M30S	1/13/2004	08:42	4.87	12.93
M31D	1/13/2004	10:15	8.03	9.97
M31S	1/13/2004	10:13	7.35	10.65
M32D	1/13/2004	10:08	5.99	11.81
M32S	1/13/2004	10:07	5.6	12.2
M33D	1/13/2004	09:13	3.95	13.65
M34D	1/13/2004	10:47	8.51	9.59
M35D	1/13/2004	10:33	7.06	10.94
M36D	1/13/2004	10:44	7.31	10.49
M37D	1/13/2004	10:43	7.35	10.65
RW03	1/13/2004	10:51	34.58	-16.68
RW04	1/13/2004	10:03	7.8	9.8
RW06	1/13/2004	10:31	36.03	-18.03
RW07	1/13/2004	10:05	8.28	9.32

Table 2 (continued). Water-Level Data at the STAR Center

Location	Measurement		Water Depth From Land Surface (ft)	Ground Water Elevation (ft NGVD)
	Date	Time		
RW10	1/13/2004	10:38	7.56	10.34
RW11	1/13/2004	10:46	7.73	10.27
RW12	1/13/2004	10:48	11.06	7.24
RW13	1/13/2004	10:02	12.07	5.53
RW14	1/13/2004	09:57	14.05	3.85
RW15	1/13/2004	09:55	19.08	-1.88
RW16	1/13/2004	10:10	24.49	-6.49
PIN18		Wastewater Neutralization Area		
0500	1/13/2004	13:23	7.4	12.7
0502	1/13/2004	13:26	6.62	13.38
0503	1/13/2004	09:39	4.26	13.42
0504	1/13/2004	13:29	5.53	14.07
0505	1/13/2004	09:46	4.7	13.18
0506	1/13/2004	09:49	4.42	13.29
0507	1/13/2004	09:41	4.38	13.35
0508	1/13/2004	13:28	5.46	14.04
0509	1/13/2004	09:44	4.72	13.11
0510	1/13/2004	09:48	4.51	13.25
0511	1/13/2004	09:27	4.31	14.49
0512	1/13/2004	09:25	4.09	14.51
0513	1/13/2004	09:26	4.28	14.52
0514	1/13/2004	09:59	4.03	13.75
0515	1/13/2004	10:00	4.91	13.5
0516	1/13/2004	09:58	5	13.41
0517	1/13/2004	13:50	4.86	13.39
0518	1/13/2004	09:56	4.8	13.4
0519	1/13/2004	09:55	4.93	13.35
0520	1/13/2004	13:21	5.19	12.81
0521	1/13/2004	13:20	6.02	12.08
0522	1/13/2004	13:32	5.98	12.12
0523	1/13/2004	13:19	6.25	13.15
0524	1/13/2004	13:19	5.94	13.06
0525	1/13/2004	13:18	5.76	13.14
0526	1/13/2004	09:29	4.29	14.31
RW02	1/13/2004	13:24	9.79	10.31
RW03	1/13/2004	14:17	10.57	7.73
RW0501	1/13/2004	14:18	11.49	8.51
PIN21		Perimeter Monitoring Wells		
0500	1/13/2004	13:45	5.16	12.94
0501	1/13/2004	13:44	5.16	12.84
0502	1/13/2004	10:56	3.01	12.19
0503	1/13/2004	10:55	3.02	12.18
0504	1/13/2004	10:16	4.8	12.8
0505	1/13/2004	10:15	4.51	12.89
0512	1/13/2004	10:40	4.73	12.57

Table 2 (continued). Water-Level Data at the STAR Center

Location	Measurement		Water Depth From Land Surface (ft)	Ground Water Elevation (ft NGVD)
	Date	Time		
PIN23			Southwest Pond	
SW01	1/13/2004	10:10		13.09
PIN37			South Pond	
S001	1/13/2004	10:11		13.06

Table 3. Floridan Aquifer Monitoring Well Water Elevations

Well Identification	Previous Water Level Elevation (ft, MSL)	Current Water Level Elevation (ft, MSL)
PIN15-0513	7.82	5.87
PIN12-0527	7.91	6.10
PIN12-0528	7.86	5.49

Table 4. Vertical Hydraulic Differential

Water Level Measured From	Well Identification	Water Level Elevation (ft, MSL)
Deep Surficial Aquifer	PIN15-M12D	13.17
Floridan Aquifer	PIN15-0513	5.87

Table 5. Surface Water Elevations

Pond Location	Previous Water Level Elevation (ft, MSL)	Current Water Level Elevation (ft, MSL)
East Pond	13.77	13.64
South Pond	13.44	13.06
West Pond	17.98	< 17.18 ^a
Southwest Pond	13.39	13.09

^aThe West Pond elevation was below the lowest measuring point elevation of 17.18.

Table 6. Field Measurements of Samples Collected at the STAR Center

Location	Screen Depth (ft bsl)	Temperature (°C)	Specific Conductance ($\mu\text{mhos}/\text{cm}$) ^a	Turbidity (NTU)	pH	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	
PIN12		Industrial Drain Leaks Bldg. 100						
0513	15–25	23.86	1,550	14	6.63	-277	0.49	
0514	30–40	24.15	1,668	305	6.48	-309	2.94	
0526	19.5–29.5	29.46	2,183	29.3	6.54	-326	0.83	
S73B	10–20	26.29	1,343	90.2	6.54	-209	0.28	
S73C	20–30	26.82	1,789	59.5	6.34	-229	0.48	
S73D	30–40	29.36	1,747	30.5	6.59	-102	0.47	
PIN15		Northeast Site						
0536	17.5–27	25.69	1,422	30	6.64	-113.3	0.49	
0537	17.5–30	24.16	1,022	10.4	6.76	-79.3	0.34	
0538	19.5–29	22.85	1,063	18	6.54	-103.7	0.41	
0568	10–20	25.03	1,297	19.5	6.68	-225	1.52	
0569	20–30	25.19	1,477	642	6.69	-106	0.51	
0570	20–30	27.96	2,175	662	6.62	-96	0.46	
0571	10–20	26.86	858	15.5	6.94	-124.7	0.26	
0572	20–30	27.86	1,098	64.1	6.79	-95.3	0.34	
M31D	19.5–29.5	24.75	989	18	6.7	-63.2	0.43	
M31S	4.5–14.5	23.81	1,028	14.7	6.93	-128.8	0.32	
M34D	20–30	24.3	925	8.85	6.64	-74.4	0.57	
PIN18		Wastewater Neutralization Area						
0500	11–16	22.59	369	7.68	7.39	-134	0.38	
0502	11–16	22.76	842	9.52	6.75	-25	0.52	
0521	20–30	24.33	902	2.95	6.85	-78	0.37	
0522	5–15	22.5	732	15.7	6.76	-44	0.31	
0523	32.5–42.5	24.32	1,086	47.9	6.87	-82.5	0.47	
0524	20–30	24.51	727	18.3	6.86	-115.5	0.5	
0525	5–15	22.52	314	17.6	6.7	85.3	3.01	

^aTemperature corrected to 25°C.

*Table 7. COPC Concentrations at the Northeast Site
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	Total 1,2-DCE ^b	Vinyl chloride	Methylene chloride	Benzene	Toluene	Total COPC ^c
		FDEP MCL	3	70	63	1	5	1	1,000	
PIN15										
0506	12–21.5	4/10/2003	<1	<1	ND	<1	<5	<1	<1	
		10/13/2003	<1	<1	ND	<1	<5	<1	<1	ND
0507	5–14.5	4/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/13/2003	<1	<1	ND	<1	<5	<1	<1	ND
0510	4–13.5	4/15/2003	<1	<1	ND	<1	0.3JB	<1	<1	ND
0513	135–149.6	4/10/2003	<1	<1	ND	<1	0.66J	<1	<1	ND
0514	15.5–25.5	4/14/2003	<1	<1	ND	<1	<5	4.3	0.36J	4.3
		10/14/2003	<1	<1	ND	<1	<5	7.9	<1	7.9
0515	7.6–17.6	4/14/2003	<1	<1	ND	<1	0.3JB	<1	<1	ND
		10/14/2003	<1	<1	ND	<1	<5	<1	<1	ND
0516	0.3–10.3	4/14/2003	<1	<1	ND	<1	0.3JB	<1	<1	ND
		10/14/2003	<1	<1	ND	<1	<5	<1	<1	ND
0518	23–28	4/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
0520	5–14.5	4/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/13/2003	<1	<1	ND	<1	<5	<1	<1	ND
0523	5–14.5	4/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
0530	5–14.5	1/10/2003	0.95J	<1	ND	<1	<5	<1	0.4J	ND
		4/14/2003	<1	<1	ND	<1	0.42JB	<1	0.13J	ND
		7/16/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/14/2003	<1	<1	ND	<1	<5	<1	<1	ND
0533	19.5–29.5	4/14/2003	910	5,700	5,700	420	<100	<100	<100	7,030
0534	19.5–29	4/10/2003	<1	<1	ND	<1	0.57J	<1	<1	ND
		10/13/2003	<1	<1	ND	<1	<5	<1	<1	ND
0535	20.5–30	1/10/2003	<1	7.2	7.2	11	<5	1.2	0.59J	19.4
		4/14/2003	<1	<1	ND	<1	<5	2.1	0.2J	2.1
		7/16/2003	<1	<1	ND	<1	<5	2.1	<1	2.1
		10/14/2003	<1	<1	ND	<1	<5	3.5	<1	3.5
0536	17.5–27	1/10/2003	71,000	3,500	3,500	<2,500	<12,000	<2,500	<2,500	74,500
		4/14/2003	130,000	2,000J	2,000J	<2,500	8,600JB	<2,500	<2,500	130,000
		7/16/2003	76,000	1,400	1,400	<1,000	<5,000	<1,000	<1,000	77,400
		10/15/2003	29,000	1,700	1,700	<250	<1,200	<250	<250	30,700
		1/16/2004	13,600	2,630	2,924	248	<200	<100	<100	16,772
0537	17.5–30	1/9/2003	87	2,100	2,100	1,900	<250	<50	<50	4,087
		4/11/2003	<250	6,600	6,600	1,600	<1,200	<250	<250	8,200
		7/15/2003	0.51J	71	71	170	<12	3.6	<2.5	244.6
		10/13/2003	<2.5	7.2	7.2	76	<12	8	<2.5	91.2
		1/15/2004	364	1,340	1,340	668	<5	6	<2.5	2,378
0538	19.5–29	1/9/2003	<1,000	1,200	1,200	33,000	<5,000	<1,000	930J	34,200
		4/11/2003	<250	240J	240J	30,000	<1,200	<250	65J	30,000
		7/15/2003	<250	820	820	25,000	<1,200	<250	420	26,240
		10/13/2003	<250	1,800	1,800	26,000	<1,200	<250	230J	27,800
		1/15/2004	<5	177	177	12,300	<10	42	459	12,978

*Table 7 (continued). COPC Concentrations at the Northeast Site
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	Total 1,2-DCE ^b	Vinyl chloride	Methylene chloride	Benzene	Toluene	Total COPC ^c
		FDEP MCL		3	70	63	1	5	1	1,000
0557	21–31	4/11/2003	<1	<1	ND	3.9	<5	<1	<1	3.9
		10/10/2003	<1	<1	ND	0.31J	<5	<1	<1	ND
0559	22–31.5	1/10/2003	<1	<1	ND	<1	<5	11	0.41J	11
		4/15/2003	<1	<1	ND	<1	2.6J	<1	<1	ND
		7/16/2003	<1	<1	ND	<1	<5	2	<1	2
		10/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
0562	20–29.5	1/13/2003	<1	<1	ND	<1	<5	1.8	0.89J	1.8
		2/26/2003	0.17J	0.14J	0.14J	<1	1.1J	1.2	1.6	2.8
		4/16/2003	<1	<1	ND	0.29J	<5	<1	<1	ND
		5/14/2003	<1	<1	ND	<1	0.37JB	<1	<1	ND
		7/23/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/14/2003	<1	<1	ND	<1	<5	<1	<1	ND
0563	5–14.5	1/13/2003	2	0.24J	0.24J	<1	<5	0.72J	0.59J	2
		2/26/2003	0.56J	0.35J	0.35J	<1	0.64J	0.75J	<1	ND
		4/16/2003	1.4	1.5	1.5	<1	<5	0.37J	0.3J	2.9
		5/14/2003	0.92J	1.6	1.6	<1	0.41JB	0.35J	0.54J	1.6
		7/23/2003	1.1	1.8	1.8	<1	0.32J	0.21J	<1	2.9
		10/14/2003	3.5	<1	ND	<1	<5	0.1J	<1	3.5
0564	20–29.5	1/13/2003	35	13	13	<1	0.63J	4.8	79	131.8
		2/26/2003	2	11	11	0.48J	0.99J	2.1	12	27.1
		4/16/2003	0.12J	2.4	2.4	0.16J	<5	0.14J	<1	2.4
		5/13/2003	0.2J	0.56J	0.56J	<1	0.59JB	<1	<1	ND
		7/23/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
0565	5–14.5	1/13/2003	<1	<1	ND	<1	<5	<1	<1	ND
		2/26/2003	<1	<1	ND	<1	0.76J	<1	<1	ND
		4/16/2003	<1	<1	ND	<1	<5	<1	<1	ND
		5/13/2003	<1	<1	ND	<1	0.85JB	<1	<1	ND
		7/23/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/14/2003	<1	<1	ND	<1	<5	<1	<1	ND
0566	19–28.5	1/13/2003	5.3	26	26	10	0.24J	2	10	53.3
		2/26/2003	0.14J	2.5	2.5	6.5	0.91J	26	1.8	36.8
		4/16/2003	<1	<1	ND	1.5	<5	17	1.1	19.6
		5/13/2003	<1	0.35J	0.35J	5.3	0.6JB	14	1.4	20.7
		7/23/2003	<1	1.4	1.4	6	<5	1.8	1.2	10.4
		10/15/2003	<1	<1	ND	<1	<5	1	<1	1
0567	5–14.5	1/13/2003	<1	1	1	0.67J	<5	<1	0.14J	1
		2/26/2003	<1	0.7J	0.91J	0.3J	0.69J	<1	<1	ND
		4/16/2003	<1	2.3	2.3	0.54J	<5	<1	<1	2.3
		5/13/2003	<1	1.4	1.4	0.31J	<5	<1	<1	1.4
		7/23/2003	<1	1.3	1.3	0.38J	<5	<1	<1	1.3
		10/15/2003	<1	<1	ND	<1	<5	<1	<1	ND

*Table 7 (continued). COPC Concentrations at the Northeast Site
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	Total 1,2-DCE ^b	Vinyl chloride	Methylene chloride	Benzene	Toluene	Total COPC ^c
		FDEP MCL	3	70	63	1	5	1	1,000	
0568	10–20	4/15/2003	<1	<1	ND	<1	2.2J	<1	<1	ND
		7/21/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		1/15/2004	<2.5	<2.5	ND	<2.5	<5	<2.5	<2.5	ND
0569	20–30	4/15/2003	<1	0.28J	0.28J	36	0.5J	4.1	0.54J	40.1
		7/21/2003	<1	<1	ND	38	<5	2.8	0.18J	40.8
		10/15/2003	<1	<1	ND	13	<5	1.8	<1	14.8
		1/16/2004	<1	<1	ND	44.9	<2	3.4	<1	48.3
0570	20–30	4/15/2003	<1	<1	ND	<1	3.1JB	<1	<1	ND
		7/18/2003	<1	<1	ND	<1	<5	<1	0.32J	ND
		10/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		1/15/2004	<5	<5	ND	<5	<10	<5	<5	ND
0571	10–20	4/16/2003	<1	<1	ND	<1	<5	<1	<1	ND
		7/21/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		1/15/2004	<2.5	<2.5	ND	<2.5	<5	<2.5	<2.5	ND
0572	20–30	4/16/2003	<1	<1	ND	<1	<5	<1	<1	ND
		7/21/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		1/15/2004	<5	<5	ND	<5	<10	<5	<5	ND
M03D	15–25	4/15/2003	<1	<1	ND	0.4J	0.85JB	<1	<1	ND
		10/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
M03S	2.5–12	4/15/2003	<1	<1	ND	<1	0.33JB	<1	<1	ND
		10/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
M12D	22.5–32.5	4/10/2003	<1	<1	ND	<1	0.39J	<1	<1	ND
M12S	5–14.5	4/10/2003	<1	<1	ND	<1	0.58J	<1	<1	ND
M14D	18.5–28.5	4/15/2003	<1	<1	ND	<1	0.55JB	<1	<1	ND
M14S	4–14	4/15/2003	<1	<1	ND	<1	0.32JB	<1	<1	ND
M16D	18.5–28.5	4/11/2003	<1	<1	ND	<1	<5	<1	<1	ND
M16S	5–14.5	4/11/2003	<1	<1	ND	<1	<5	<1	<1	ND
M17D	19.5–29.5	4/11/2003	39,000	100,000	100,000	3,100	2,100JB	390J	54,000	196,100
M17S	5–14.5	4/11/2003	<1	<1	ND	<1	<5	<1	<1	ND
M24D	20–30	4/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
M27D	21–31	1/10/2003	<1	0.15J	0.15J	1.2	<5	16	1	18.2
		4/10/2003	<1	<1	ND	<1	0.43J	6	<1	6
		7/15/2003	<1	<1	ND	<1	<5	2.5	<1	2.5
		10/13/2003	<1	<1	ND	<1	<5	4.8	<1	4.8
M27S	6–16	1/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
		4/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
		7/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/13/2003	<1	<1	ND	<1	<5	<1	<1	ND
M29D	20–30	4/14/2003	<1	<1	ND	<1	4.2JB	0.15J	<1	ND
		10/15/2003	<25	<25	ND	<25	<120	<25	<25	ND
M29S	5–15	4/14/2003	<1	<1	ND	<1	5.5B	<1	0.42J	5.5

*Table 7 (continued). COPC Concentrations at the Northeast Site
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	Total 1,2-DCE ^b	Vinyl chloride	Methylene chloride	Benzene	Toluene	Total COPC ^c
		FDEP MCL	3	70	63	1	5	1	1,000	
		10/15/2003	<25	<25	ND	<25	<120	<25	<25	ND
M30D	20.5–30.5	4/11/2003	<1	2.4	2.4	32	0.41J	0.53J	<1	34.4
		10/10/2003	<5	<5	ND	390	<25	<5	<5	390
M30S	5.5–15.5	4/11/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
M31D	19.5–29.5	1/9/2003	<1	0.65J	0.65J	25	0.47J	8.8	0.65J	33.8
		4/14/2003	<1	<1	ND	0.21J	0.62J	0.13J	<1	ND
		7/15/2003	<1	<1	ND	6.8	<5	4.2	<1	11
		10/15/2003	<1	<1	ND	12	<5	8.4	<1	20.4
		1/15/2004	<2.5	<2.5	ND	<2.5	<5	6	<2.5	6
M31S	4.5–14.5	1/9/2003	<1	<1	ND	<1	<5	<1	<1	ND
		4/14/2003	<1	<1	ND	<1	0.34J	<1	<1	ND
		7/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		1/15/2004	<2.5	<2.5	ND	<2.5	<5	<2.5	<2.5	ND
M32D	14–24	1/9/2003	<1	<1	ND	<1	<5	<1	<1	ND
		4/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
		7/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/13/2003	<1	<1	ND	<1	<5	<1	<1	ND
M32S	3–13	1/9/2003	<1	<1	ND	<1	<5	<1	<1	ND
		4/10/2003	<1	<1	ND	<1	<5	<1	<1	ND
		7/15/2003	<1	<1	ND	<1	<5	<1	<1	ND
		10/13/2003	<1	<1	ND	<1	<5	<1	<1	ND
M33D	20–30	4/15/2003	<1	<1	ND	<1	0.85JB	<1	<1	ND
M34D	20–30	4/14/2003	<50	1,400	1,400	2,200	60J	6.1J	<50	3,600
		10/15/2003	<250	<250	ND	9,700	<1,200	<250	<250	9,700
		1/15/2004	<500	<500	ND	10,400	<1,000	<500	<500	10,400
M35D	20–30	4/11/2003	11,000	48,000	48,000	1,800	910,000	<25,000	77,000	1,047,800
M36D	20–30	4/11/2003	<25	<25	ND	200	120JB	72	<25	272
RW03	10.5–30.5	1/9/2003	26,000	38,000	38,000	4,000J	130,000	<5,000	25,000	219,000
		4/11/2003	11,000	51,000	51,000	2,600	130,000B	<2,500	14,000	208,600
		7/15/2003	13,000	33,000	33,000	14,000	130,000	<2,500	10,000	200,000
		10/15/2003	12,000	18,000	18,000	11,000	82,000	<2,500	7,400	130,400
		1/16/2004	22,100	23,400	23,400	7,140	138,000	<500	15,000	205,640
RW06	11–31	1/9/2003	12,000	65,000	65,000	4,100	75,000	<2,500	39,000	195,100
		4/11/2003	10,000	76,000	76,000	6,300	71,000B	190J	30,000	193,300
		7/15/2003	<1,000	66,000	66,000	11,000	4,600J	210J	24,000	101,000
		10/15/2003	7,200	50,000	50,000	<5,000	170,000	<5,000	11,000	238,200
		1/16/2004	21,300	48,800	48,800	6,140	157,000	<500	19,500	252,740
RW12	14–29	1/9/2003	390	5,600	5,600	7,900	220JB	<250	870	14,760
		4/14/2003	320	6,500	6,500	7,900	52JB	21J	600	15,320
		7/15/2003	280	4,800	4,800	5,400	<500	<100	280	10,760
		10/15/2003	120	5,200	5,200	6,400	<500	<100	290	12,010
		1/16/2004	279J	3,710	3,710	3,210	<500	<250	313J	6,920

*Table 7 (continued). COPC Concentrations at the Northeast Site
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	Total 1,2-DCE ^b	Vinyl chloride	Methylene chloride	Benzene	Toluene	Total COPC ^c
		FDEP MCL	3	70	63	1	5	1	1,000	
RW13	9–29	1/9/2003	2.1J	110	110	75	340	9.5	88	622.5
		4/14/2003	1.2J	120	120	250	220B	11	82	683
		7/16/2003	<5	46	46	300	140	12	87	585
		10/15/2003	<5	1.1J	1.1J	180	<25	12	82	274
		1/16/2004	<2.5	<2.5	ND	44.6	<5	13.3	67.4	125.3
RW14	8–28	1/9/2003	210	930	930	950	130	<25	100	2,320
		4/14/2003	900	3,700	3,700	3,600	<500	18J	80J	8,200
		7/16/2003	500	3,600	3,600	2,900	<500	<100	46J	7,000
		10/15/2003	<100	1,700	1,700	1,400	<500	<100	<100	3,100
		1/16/2004	1,160	1,780	1,780	1,330	<100	<50	<50	4,270
RW15	14.5–29.5	1/9/2003	2,500	1,400	1,400	210	<250	<50	<50	4,110
		4/14/2003	3,600	1,700	1,700	100	250JB	10J	9.4J	5,400
		7/16/2003	2,600	1,200	1,200	240	<250	10J	11J	4,040
		10/15/2003	2,100	740	740	250	<250	<50	<50	3,090
		1/16/2004	1,010	591	591	164	<50	<25	<25	1,765
RW16	20–30	1/9/2003	<50	330	330	2,900	<250	<50	<50	3,230
		4/14/2003	<25	840	840	1,200	12J	2.8J	<25	2,040
		7/15/2003	<25	610	610	1,400	<120	<25	<25	2,010
		10/15/2003	<25	340	340	890	<120	<25	<25	1,230
		1/16/2004	<5	451	451	925	<10	6.4J	<5	1,376
RW17	19.5–29.5	1/9/2003	<2,500	58,000	58,000	15,000	<12,000	<2,500	<2,500	73,000
		4/14/2003	<1,000	65,000	65,000	18,000	5,200	<1,000	980J	88,200
		7/15/2003	<1,000	77,000	77,000	21,000	<5,000	<1,000	1,500	99,500
		10/15/2003	<1,000	58,000	58,000	15,000	<5,000	<1,000	<1,000	73,000
		1/16/2004	291	43,400	43,431.7	13,200	352	57.5	1,130	58,462.2

^aBefore December 18, 2003 "<" values are reporting limits. On or after December 18, 2003 "<" values are method detection limits.

^bTotal 1,2-DCE is the sum of cis-1,2-DCE and trans-1,2-DCE.

^cTotal COPC is the sum of the individual COPC concentrations. The cis-1,2-DCE value is not part of the total COPC value because this value is included in the total 1,2-DCE value. "J" values are not included in the total COPC value.

ND = Not detected

J = Estimated value, result is between the reporting limit and the method detection limit.

B = Analyte also found in method blank.

*Table 8. COPC Concentrations at the Building 100 Area
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^b	1,1-DCE	Vinyl chloride	Total COPC ^c
FDEP MCL			3	70	100	63	7	1	
PIN06			Old Drum Storage Site						
0500	3–13	4/15/2003	<1	<1	<1	ND	<1	<1	ND
		10/14/2003	<1	<1	<1	ND	<1	<1	ND
0501	3–13	4/15/2003	<1	<1	<1	ND	<1	<1	ND
		10/15/2003	<1	<1	<1	ND	<1	<1	ND
PIN09			Incinerator Site						
0500	3–13	4/15/2003	<1	<1	<1	ND	<1	<1	ND
PIN10			Incinerator Ditch						
0500	3–13	4/15/2003	0.25J	1.9	<1	1.9	<1	<1	1.9
PIN12			Industrial Drain Leaks Bldg 100						
0508	3–13	4/15/2003	<2.5	<2.5	<2.5	ND	<2.5	<2.5	ND
0509	3–13	4/15/2003	<1	0.099J	<1	0.099J	<1	<1	ND
		10/15/2003	<1	<1	<1	ND	<1	<1	ND
0510	3–13	4/15/2003	<2.5	<2.5	<2.5	ND	<2.5	<2.5	ND
		10/15/2003	<1	<1	<1	ND	<1	<1	ND
0511	3–13	4/11/2003	<1	<1	<1	ND	<1	<1	ND
0512	3–13	4/12/2003	<1	<1	<1	ND	<1	<1	ND
0513	15–25	1/8/2003	<1	24	1.2	25.2	<1	46	71.2
		4/9/2003	<1	16	1.5	17.5	0.22J	37	54.5
		7/22/2003	<1	8.5	1.4	9.9	<1	27	36.9
		10/13/2003	<1	<1	1.5	1.5	<1	1.4	2.9
		1/15/2004	<2.5	<2.5	<2.5	ND	<2.5	<2.5	ND
0514	30–40	1/9/2003	<2.5	45	54	99	<2.5	72	171
		4/8/2003	<1	52	29	81	<1	44	125
		4/9/2003	<2.5	56	60	116	0.34J	98	214
		7/22/2003	<1	21	58	79	<1	120	199
		10/13/2003	<1	7.2	45	52.2	<1	32	84.2
		1/15/2004	<2.5	13.9	32.9	46.8	<2.5	37.7	84.5
0515	15–25	4/12/2003	<1	<1	<1	ND	<1	<1	ND
0516	30–40	4/12/2003	<1	<1	<1	ND	<1	<1	ND
0517	15–25	4/12/2003	<1	<1	<1	ND	<1	<1	ND
		10/13/2003	<1	<1	<1	ND	<1	<1	ND
0518	30–40	4/12/2003	<1	<1	<1	ND	<1	0.84J	ND
		10/13/2003	<1	<1	<1	ND	<1	<1	ND
0520	36–46	4/15/2003	<1	9.9	<1	9.9	<1	57	66.9
		10/14/2003	<1	<1	<1	ND	<1	32	32
0521	19.5–29.5	4/15/2003	0.77J	1.5	<1	1.5	<1	0.68J	1.5
		10/15/2003	0.66J	0.98J	0.23J	1.21J	<1	0.5J	ND
0522	32–42	4/15/2003	<2.5	<2.5	<2.5	ND	<2.5	<2.5	ND
		10/15/2003	<1	<1	<1	ND	<1	<1	ND
0523	18–28	4/15/2003	<1	0.6J	<1	0.6J	<1	<1	ND
		10/15/2003	<1	<1	<1	ND	<1	<1	ND

*Table 8 (continued). COPC Concentrations at the Building 100 Area
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^b	1,1-DCE	Vinyl chloride	Total COPC ^c
		FDEP MCL	3	70	100	63	7	1	
0524	27–37	1/11/2003	<250	8,200	120J	8,200	280	530	9,010
		4/12/2003	<100	4,900	23J	4,900	150	300	5,350
		7/22/2003	<100	7,900	14J	7,900	170	800	8,870
		10/13/2003	230	6,900	<100	6,900	<100	400	7,530
0525	12–22	1/11/2003	<1	2.4	<1	2.4	<1	<1	2.4
		4/12/2003	<1	3.4	<1	3.4	<1	<1	3.4
		7/22/2003	<1	2.7	<1	2.7	<1	0.22J	2.7
		10/13/2003	<1	0.48J	<1	0.48J	<1	<1	ND
0526	19.5–29.5	1/9/2003	<1	3.1	1.7	4.8	<1	1.1	5.9
		4/8/2003	<1	53	30	83	<1	53	136
		4/9/2003	<1	8	3.6	11.6	<1	3.2	14.8
		7/18/2003	<1	2.2	1	3.2	<1	<1	3.2
		10/10/2003	<1	4.4	2.1	6.5	<1	1.2	7.7
		1/15/2004	<2.5	12.9	3.7J	12.9	<2.5	<2.5	12.9
0527	118–137.9	4/9/2003	<1	<1	<1	ND	<1	<1	ND
0528	127–146.9	4/11/2003	<1	<1	<1	ND	<1	<1	ND
RW01	19–29	4/7/2003	7,200	3,500	45J	3,500	<250	900	11,600
		10/2/2003	6,800	4,200	<100	4,200	<100	650	11,650
		1/7/2004	5,840	3,360	50.4	3,410.4	36.2	727	10,013.6
RW02	25–35	4/7/2003	660	720	47	767	18J	76	1,503
		10/2/2003	530	840	76	916	<25	75	1,521
		1/7/2004	778	888	68.4	956.4	25.2	136	1,895.6
S29C	14–24	5/9/2003	<1	5.7	5.5	11.2	<1	34	45.2
		10/8/2003	<1	19	6.4	25.4	<1	48	73.4
S30B	5–15	5/9/2003	1,900	27,000	880	27,880	140J	2,000	31,780
		10/8/2003	160J	11,000	370	11,370	<250	1,600	12,970
S31B	5–15	5/8/2003	<1	0.36J	<1	0.36J	<1	<1	ND
		10/8/2003	<1	<1	<1	ND	<1	<1	ND
S32B	5.5–15.5	5/9/2003	<1	22	0.74J	22	0.65J	4.9	26.9
		10/8/2003	<1	<1	<1	ND	<1	<1	ND
S33C	11–21	5/9/2003	7.9J	980	68	1,048	6.4J	1,400	2,448
		10/8/2003	<25	1,300	90	1,390	<25	2,400	3,790
S35B	5–15	5/9/2003	49,000	110,000	11,000	121,000	<1,000	20,000	190,000
		10/8/2003	16,000	68,000	4,500	72,500	<1,000	13,000	101,500
S36B	5–15	5/8/2003	<1	<1	<1	ND	<1	<1	ND
S37B	5–15	5/9/2003	57	720	14	734	<10	310	1,101
S54D	36–41	5/12/2003	11,000	59,000	<1,000	59,000	370J	4,600	74,600
S55B	10–19.8	5/12/2003	<50	2,000	<50	2,000	<50	19,000	21,000
S55C	20.5–30.3	5/12/2003	<100	8,300	18J	8,300	<100	1,900	10,200
S55D	31–40.8	5/12/2003	11J	2,800	<50	2,800	<50	590	3,390
S56B	10–19.8	5/12/2003	28	40	0.12J	40	0.76J	6.5	74.5
S56C	20.5–30.3	5/12/2003	38	64	0.26J	64	0.81J	7.3	109.3
S56D	31–40.8	5/12/2003	30	56	0.22J	56	1	12	99
S57B	10–19.8	5/12/2003	460	510	1.1J	510	20	100	1,090

*Table 8 (continued). COPC Concentrations at the Building 100 Area
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^b	1,1-DCE	Vinyl chloride	Total COPC ^c
		FDEP MCL	3	70	100	63	7	1	
S57C	20.5–30.3	5/12/2003	30,000	34,000	86J	34,000	2,400	13,000	79,400
S57D	31.5–41.3	5/12/2003	17	440	1.7J	440	9.1J	720	1,177
S59B	10–19.8	4/9/2003	0.99J	0.73J	<1	0.73J	<1	0.58J	ND
S59C	20.5–30.3	4/9/2003	<1	10	<1	10	<1	8	18
S59D	31–40.8	4/8/2003	<1	<1	<1	ND	<1	<1	ND
S60B	10–19.8	4/9/2003	<1	4.8	<1	4.8	1	1.2	7
S60C	20.5–30.3	4/9/2003	<1	<1	<1	ND	<1	<1	ND
S60D	31–40.8	4/9/2003	<1	<1	<1	ND	<1	<1	ND
S67B	10–19.83	1/8/2003	<10	35	2.6J	35	<10	490	525
		4/9/2003	<10	47	4.5J	47	<10	450	497
		7/22/2003	<10	40	<10	40	<10	660	700
S67C	20–29.83	1/8/2003	<10	570	110	680	4.1J	300	980
		4/9/2003	<10	720	130	850	4.4J	260	1,110
		7/22/2003	<10	520	81	601	<10	200	801
S67D	30–39.83	1/8/2003	<2.5	130	27	157	1J	110	267
		4/9/2003	<2.5	160	35	195	1.4J	82	277
		7/22/2003	<2.5	210	27	237	1.7J	100	337
S68B	10–20	1/14/2003	<1	<1	<1	ND	<1	<1	ND
		4/11/2003	<1	<1	<1	ND	<1	<1	ND
		7/22/2003	<1	<1	<1	ND	<1	<1	ND
		10/13/2003	<1	<1	<1	ND	<1	<1	ND
S68C	18–28	1/14/2003	<1	4.8	<1	4.8	<1	4.4	9.2
		4/11/2003	<1	3	<1	3	<1	5.2	8.2
		7/22/2003	<1	2	<1	2	<1	1.7	3.7
		10/13/2003	<1	4.3	<1	4.3	<1	5.7	10
S68D	30–40	1/14/2003	<1	40	<1	40	<1	30	70
		4/11/2003	<1	93	0.38J	93	<1	91	184
		7/22/2003	<1	78	<1	78	<1	63	141
		10/13/2003	<1	84	3.4	87.4	<1	77	164.4
S69B	10–20	1/13/2003	<1	0.14J	<1	0.14J	<1	<1	ND
		4/10/2003	<1	0.18J	<1	0.18J	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/10/2003	<1	<1	<1	ND	<1	<1	ND
S69C	20–30	1/13/2003	<1	0.2J	<1	0.2J	<1	0.64J	ND
		4/10/2003	<1	0.11J	<1	0.11J	<1	0.26J	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/10/2003	<1	<1	<1	ND	<1	<1	ND
S69D	30–40	1/13/2003	<1	0.49J	<1	0.49J	<1	<1	ND
		4/10/2003	<1	0.41J	<1	0.41J	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/10/2003	<1	<1	<1	ND	<1	<1	ND

*Table 8 (continued). COPC Concentrations at the Building 100 Area
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^b	1,1-DCE	Vinyl chloride	Total COPC ^c
		FDEP MCL	3	70	100	63	7	1	
S70B	10–20	1/13/2003	<1	28	0.28J	28	<1	19	47
		4/10/2003	<1	29	0.24J	29	<1	31	60
		7/21/2003	<1	28	0.52J	28	<1	30	58
		10/10/2003	<1	29	<1	29	<1	24	53
S70C	20–30	1/13/2003	<1	29	9.5	38.5	0.66J	6.7	45.2
		4/10/2003	<1	29	8.8	37.8	0.52J	14	51.8
		7/21/2003	<1	28	8.5	36.5	0.52J	12	48.5
		10/10/2003	<1	29	8.1	37.1	<1	11	48.1
S70D	30–40	1/13/2003	<1	10	3.4	13.4	<1	1.7	15.1
		4/10/2003	<1	13	4	17	<1	3.2	20.2
		7/21/2003	<1	11	3.8	14.8	<1	1.8	16.6
		10/10/2003	<1	13	2.5	15.5	<1	0.26J	15.5
S71B	10–20	1/13/2003	<1	7	2.8	9.8	<1	1.2	11
		4/9/2003	<1	3.7	1.1	4.8	<1	0.53J	4.8
		7/21/2003	<1	8.5	3.8	12.3	<1	1.6	13.9
		10/10/2003	<1	10	3	13	<1	0.33J	13
S71C	20–30	1/13/2003	<1	110	65	175	1.5	82	258.5
		4/9/2003	<1	100	53	153	1.1	94	248.1
		7/21/2003	<2.5	120	64	184	0.83J	140	324
		10/10/2003	<2.5	120	52	172	<2.5	160	332
S71D	30–40	1/13/2003	<1	2.3	0.23J	2.3	<1	0.35J	2.3
		4/9/2003	<1	4.1	0.64J	4.1	<1	0.74J	4.1
		7/21/2003	<1	3.2	0.44J	3.2	<1	<1	3.2
		10/10/2003	<1	3.4	<1	3.4	<1	<1	3.4
S72B	10–20	1/11/2003	<1	<1	<1	ND	<1	<1	ND
		4/10/2003	<1	<1	<1	ND	<1	<1	ND
		7/22/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
S72C	20–30	1/11/2003	<1	46	0.48J	46	2.7	5.6	54.3
		4/10/2003	<1	0.2J	<1	0.2J	<1	<1	ND
		7/21/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
S72D	30–40	1/11/2003	<1	1.9	<1	1.9	<1	1.7	3.6
		4/10/2003	<1	<1	<1	ND	<1	<1	ND
		7/21/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
S73B	10–20	1/10/2003	<1	<1	<1	ND	<1	<1	ND
		4/9/2003	<1	<1	<1	ND	<1	<1	ND
		7/22/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
		1/15/2004	<2.5	<2.5	<2.5	ND	<2.5	<2.5	ND

*Table 8 (continued). COPC Concentrations at the Building 100 Area
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	TCE	cis-1,2-DCE	trans-1,2-DCE	Total 1,2-DCE ^b	1,1-DCE	Vinyl chloride	Total COPC ^c
		FDEP MCL	3	70	100	63	7	1	
S73C	20–30	1/9/2003	<1	61	32	93	0.69J	35	128
		4/8/2003	<1	24	11	35	<1	15	50
		4/9/2003	<1	32	14	46	0.23J	25	71
		7/22/2003	<1	28	14	42	<1	18	60
		10/7/2003	<1	26	11	37	<1	9	46
		1/15/2004	<2.5	20.7	9.6	30.3	<2.5	10.7	41
S73D	30–40	1/10/2003	<1	<1	<1	ND	<1	<1	ND
		4/9/2003	<1	1.1	0.18J	1.1	<1	0.33J	1.1
		7/22/2003	<1	0.94J	<1	0.94J	<1	<1	ND
		10/7/2003	<1	<1	<1	ND	<1	<1	ND
		1/15/2004	<2.5	<2.5	<2.5	ND	<2.5	<2.5	ND
TE03	—	4/12/2003	<1	<1	<1	ND	<1	5.2	5.2
PIN21			Perimeter Monitoring Wells						
0500	7–17	4/9/2003	<1	<1	<1	ND	<1	<1	ND
0501	20–28	4/9/2003	<1	1.3	<1	1.3	<1	<1	1.3
0502	7–17	1/10/2003	<1	<1	<1	ND	<1	<1	ND
		4/11/2003	<1	<1	<1	ND	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	<1	ND
0503	20–28	1/10/2003	<1	<1	<1	ND	<1	<1	ND
		4/11/2003	<1	<1	<1	ND	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/9/2003	5.2	8.7	<1	8.7	<1	<1	13.9
0504	7–17	1/14/2003	<1	<1	<1	ND	<1	<1	ND
		4/11/2003	<1	<1	<1	ND	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/13/2003	<1	<1	<1	ND	<1	<1	ND
0505	20–28	1/14/2003	<1	<1	<1	ND	<1	<1	ND
		4/11/2003	<1	<1	<1	ND	<1	<1	ND
		7/18/2003	<1	<1	<1	ND	<1	<1	ND
		10/13/2003	<1	<1	<1	ND	<1	<1	ND
0512	20–29.5	1/11/2003	<1	0.76J	<1	0.76J	<1	<1	ND
		4/11/2003	<1	0.82J	<1	0.82J	<1	1.9	1.9
		7/17/2003	<1	0.43J	<1	0.43J	<1	<1	ND
		10/9/2003	<1	<1	<1	ND	<1	1.3	1.3

^aBefore December 18, 2003 "<" values are reporting limits. On or after December 18, 2003 "<" values are method detection limits.

^bTotal 1,2-DCE is the sum of cis-1,2-DCE and trans-1,2-DCE.

^cTotal COPC is the sum of the individual COPC concentrations. The cis-1,2-DCE and trans-1,2-DCE values are not part of the total COPC value because these values are included in the total 1,2-DCE value. "J" values are not included in the total COPC value.

ND = Not detected

J = Estimated value, result is between the reporting limit and the method detection limit.

B = Analyte also found in method blank.

*Table 9. COPC Concentrations at the Wastewater Neutralization Area
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	Vinyl chloride	Arsenic	Total COPC ^b		
		FDEP MCL	1	50			
		PIN18	Wastewater Neutralization Area				
0500	11–16	1/13/2003	--	110	110		
		4/14/2003	<1	110	110		
		7/17/2003	--	85	85		
		10/14/2003	--	93	93		
		1/16/2004	--	76.4	76.4		
0501	11–16	1/13/2003	--	380	380		
		4/14/2003	<1	300	300		
0502	11–16	1/13/2003	--	58	58		
		4/14/2003	<1	53	53		
		7/17/2003	--	58	58		
		10/14/2003	--	84	84		
		1/16/2004	--	30.4	30.4		
0503	10–20	4/12/2003	<1	4.2J	ND		
		10/11/2003	--	<10	ND		
0504	13–22	4/14/2003	<1	5J	ND		
		10/14/2003	--	<10	ND		
0505	10.5–20.5	4/12/2003	<1	6.8J	ND		
		10/11/2003	--	<10	ND		
0506	12–22	4/12/2003	<1	3.9J	ND		
		10/11/2003	--	<10	ND		
0507	27–37	4/12/2003	<1	5.5J	ND		
		10/11/2003	--	<10	ND		
0508	31–41	4/14/2003	<1	5J	ND		
		10/14/2003	--	<10	ND		
0509	27.5–37.5	4/12/2003	<1	5.5J	ND		
		10/11/2003	--	<10	ND		
0510	27.5–37.5	4/12/2003	<1	5.1J	ND		
		10/11/2003	--	<10	ND		
0511	32–42	4/12/2003	<1	5.7J	ND		
0512	21–31	4/12/2003	<1	3.6J	ND		
0513	12–22	4/12/2003	<1	4J	ND		
0514	32.5–42.5	4/12/2003	<1	4.6J	ND		
0515	22.5–32.5	4/12/2003	<1	<10	ND		
0516	12.5–22	4/12/2003	<1	3.3J	ND		
0517	31.5–41.5	4/12/2003	<1	4.6J	ND		
0518	22.5–32.5	4/12/2003	<1	<10	ND		
0519	12.5–22.5	4/12/2003	1	3.4J	1		
0520	32.5–42.5	4/14/2003	<1	<10	ND		

*Table 9 (continued). COPC Concentrations at the Wastewater Neutralization Area
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	Vinyl chloride	Arsenic	Total COPC ^b
	FDEP MCL		1	50	
0521	20–30	1/13/2003	--	14	14
		4/14/2003	<1	3.9J	ND
		7/17/2003	--	<10	ND
		10/14/2003	--	6.4J	ND
		1/16/2004	--	<3.5	ND
0522	5–15	1/13/2003	--	16	16
		4/14/2003	<1	38	38
		7/17/2003	--	33	33
		10/14/2003	--	13	13
		1/16/2004	--	26.9	26.9
0523	32.5–42.5	1/13/2003	--	<10	ND
		4/14/2003	5.6	<10	5.6
		7/16/2003	--	<10	ND
		10/14/2003	--	<10	ND
		1/16/2004	--	<3.5	ND
0524	20–30	1/13/2003	--	130	130
		4/14/2003	<1	25	25
		7/16/2003	--	22	22
		10/14/2003	--	26	26
		1/16/2004	--	27.6	27.6
0525	5–15	1/13/2003	--	65	65
		4/14/2003	<1	120	120
		7/16/2003	--	130	130
		10/14/2003	--	66	66
		1/16/2004	--	112	112
0526	19.5–29	4/12/2003	<1	7.7J	ND
RW02	10–20	1/13/2003	<1	82	82
		4/7/2003	<1	81	81
		7/22/2003	<1	150	150
		10/2/2003	<1	130	130
		1/7/2004	--	36.3	36.3
		1/16/2004	<0.5	--	ND
RW03	9–24	1/13/2003	<1	61	61
		4/7/2003	<1	71	71
		7/22/2003	<1	41	41
		10/2/2003	<1	32	32
		1/7/2004	--	37.4	37.4
		1/16/2004	<0.5	--	ND

*Table 9 (continued). COPC Concentrations at the Wastewater Neutralization Area
(reported in micrograms per liter)^a*

Location	Screen Depth (ft)	Date Sampled	Vinyl chloride	Arsenic	Total COPC ^b
FDEP MCL			1	50	
RW0501	11–16	7/22/2003	<1	160	160
		10/2/2003	<1	140	140
		1/7/2004	--	131	131
		1/16/2004	<0.5	--	ND

^aBefore December 18, 2003 "<" values are reporting limits. On or after December 18, 2003 "<" values are method detection limits.

^bTotal COPC is the sum of the individual COPC concentrations. "J" values are not included in the total COPC value.

ND = Not detected

-- = Not measured

J = Estimated value, result is between the reporting limit and the method detection limit.

Table 10. Relative Percent Difference (RPD) for Duplicate Samples

Sample ID	Duplicate ID	Case Number	Constituent	S^a	D^b	RPD Value	5 times RL^c	Fail^d
PIN12-0514	PIN12-0580	F21662	1,1-Dichloroethane	11.4	11.3	0.9	12.5	
			cis-1,2-Dichloroethene	13.9	14.3	2.8	12.5	
			trans-1,2-Dichloroethene	32.9	35	6.2	12.5	
			Vinyl chloride	37.7	40.5	7.2	12.5	
PIN15-0572	PIN15-0580	F21661	non detect					
PIN18-0522	PIN18-0650	F21662	Arsenic	0.0269	0.0423	44.5	0.0175	Fail

^aS = Original sample (N001), VOC concentrations in µg/L and metals in mg/L.^bD = Duplicate sample (N002), VOC concentrations in µg/L and metals in mg/L.^cRL = Reporting limit.^dFail

Volatiles "Fail" when the RPD is greater than \pm 30% and the concentration is more than 5 times the reporting limit.
 Metals "Fail" when the samples are more than 5 times the reporting limit and the RPD is greater than 20%. For metals samples that are less than 5 times the reporting limit the difference must be less than \pm the reporting limit (this includes the case when only one of the duplicate/sample values is less than 5 times the reporting limit).

Table 11. Tracking Form for Data Anomalies

Location	Comment	Date Anomaly Noted	Start Date of Comparison	End Date of Comparison	Final Recommendation	Date of Completion
PIN15-EFF1	A non-detect value of 0.048U mg/L for iron was detected in this sample. It is anomalous because iron has never been measured at less than 2.4 mg/L in 165 samples collected since February 1999. Iron is ubiquitous in Northeast Site ground water at concentrations ranging from approximately 3 to 6 mg/L. Additionally, a chemical is added to the treatment system influent water for the purpose of keeping the iron in solution during the air stripping treatment process. Therefore, it is highly unlikely that iron would be non-detect in this sample. The laboratory was requested to reanalyze this sample but was unable to do so because it had been discarded.	2/17/2004	NA	NA	Qualify the iron results in SEEPro as "R" for unusable result.	
PIN12-S73B	The 8 µg/L for toluene is anomalous because the previous historical maximum concentration of this contaminant at this location was 0.23J µg/L. However, the previous maximum value was measured during the previous sampling event (October 2003). Therefore, it is possible that there is an increasing trend of toluene in this well. Evaluation of this data point should continue to the next quarterly sampling event to evaluate this potential trend.	1/15/2009			Pending evaluation of results from April quarterly sampling event.	

*Table 12. Summary of Analytical Results for Ground Water Samples Collected at the Northeast Site Treatment System
(reported in micrograms per liter unless otherwise noted)^a*

Location ^b	Date Sampled	TCE	cis-1,2-DCE	Total 1,2-DCE ^c	Vinyl chloride	Methylene chloride	Benzene	Toluene	Total COPC ^d	CaCO ₃ mg/L	Fe mg/L
PIN15		Northeast Site									
INF1	1/7/2004	1,740	3,250	3,315	1,130	6,430	16.5	480	13,111.5	430	3.28
INF1	1/20/2004	2,390	4,310	4,310	1,050	4,420	<50	483	12,653	470	3.97
INF1	2/3/2004	2,530	4,560	4,560	1,070	6,220	<50	798	15,178	490	4.68
INF1	2/17/2004	1,490	3,110	3,110	692	2,860	<50	341	8,493	441	3.95
INF1	3/3/2004	1,690	2,960	2,960	934	3,540	<50	348	9,472	451	3.7
INF1	3/18/2004	818	2,180	2,196.6	937	719	7.6J	322	4,992.6	469	3.95
EFF1	1/7/2004	<2.5	<2.5	ND	<2.5	<5	<2.5	<2.5	ND	453	3.12
EFF1	1/20/2004	<1	<1	ND	<1	<2	<1	<1	ND	470	3.29
EFF1	2/3/2004	<2.5	<2.5	ND	<2.5	<5	<2.5	<2.5	ND	489	3.59
EFF1	2/17/2004	<1	<1	ND	<1	<2	<1	<1	ND	448	e
EFF1	3/3/2004	<0.5	<0.5	ND	<0.5	<1	<0.5	<0.5	ND	456	3.35
EFF1	3/18/2004	<2.5	<2.5	ND	<2.5	<5	<2.5	<2.5	ND	465	3.5

^a"<" values are method detection limits.

^bINF1 is the system influent and EFF1 is the system effluent.

^cTotal 1,2-DCE is the sum of cis-1,2-DCE and trans-1,2-DCE.

^dTotal COPC is the sum of the individual COPC concentrations. The cis-1,2-DCE value is not part of the total COPC value because this value is included in the total 1,2-DCE value. "J" values are not included in the total COPC value.

^eThis data has been determined to be unusable. See the discussion in Section 3.3 paragraph 7 for a more detailed explanation.

J = Estimated value, result is between the reporting limit and the method detection limit.

ND = Not detected.

Table 13. Historical Summary of Ground Water Recovery at the Northeast Site and Building 100

Report Date	Quarterly (gallons)	Total To Date (gallons)
April–June 1997	356,886	356,886
July–September 1997	1,899,871	2,256,757
October–December 1997	2,265,460	4,522,217
January–March 1998	2,358,081	6,880,298
April–June 1998	1,693,697	8,573,995
July–September 1998	0	8,573,995
October–December 1998	0	8,573,995
January–March 1999	848,912	9,422,907
April–June 1999	1,985,705	11,408,612
July–September 1999	2,158,568	13,567,180
October–December 1999	2,285,471	15,852,651
January–March 2000	1,670,059	17,522,710
April–June 2000	2,031,821	19,554,531
July–September 2000	2,728,441	22,282,972
October–December 2000	2,416,705	24,699,677
January–March 2001	2,977,868	27,677,545
April–June 2001	2,452,063	30,129,608
July–September 2001	2,262,233	32,391,841
October–December 2001	2,374,065	34,765,906
January–March 2002	2,449,505	37,215,411
April–June 2002	2,119,164	39,334,575
July–September 2002	2,211,860	41,546,435
October–December 2002	1,830,987	43,377,422
January–March 2003	2,183,650	45,561,072
April–June 2003	2,216,297	47,777,369
July–September 2003	2,518,733	50,296,102
October–December 2003	1,908,278	52,204,380
January–March 2004	2,242,490	54,446,870

Table 14. Estimated Mass of VOCs Recovered from the Northeast Site and Building 100 Recovery Wells During January, February, and March 2004

Month	Volume Treated (gallons)	Concentration ^a					
		cis-1,2-DCE (µg/L)	trans-1,2-DCE (µg/L)	Toluene (µg/L)	TCE (µg/L)	Methylene Chloride (µg/L)	Vinyl Chloride (µg/L)
January-04	630,036	3,780	45	481.5	2,065	5,425	1,090
February-04	688,927	3,835	25	569.5	2,010	4,540	881
March-04	923,527	2,570	20.8	335	1,254	2,129.5	935.5
							7,244

Month	Volume Treated (gallons)	Recovery ^b					
		cis-1,2-DCE (lbs)	trans-1,2-DCE (lbs)	Toluene (lbs)	TCE (lbs)	Methylene Chloride (lbs)	Vinyl Chloride (lbs)
January-04	630,036	19.88	0.24	2.53	10.86	28.52	5.73
February-04	688,927	22.05	0.14	3.27	11.56	26.1	5.07
March-04	923,527	19.81	0.16	2.58	9.66	16.41	7.21
							55.84

^aThese concentrations represent the average of weekly sampling results.

^bIncludes "J" (estimated) values. For any detection of "<", which indicates the laboratory could not detect that analyte, 50 percent of the "<" value was used for the calculation of recovery.

End of current text

Appendix A

Laboratory Reports—January 2004 Quarterly Results



03/31/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F21661

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: 79



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Conference
and/or state specific certification programs as applicable.



**Harry Behzadi, Ph.D.
Laboratory Director**

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	5
Section 3: Sample Results	6
3.1: F21661-1: PIN15-0571	6
3.2: F21661-2: PIN15-0581	8
3.3: F21661-3: PIN15-0572	10
3.4: F21661-4: PIN15-0580	12
3.5: F21661-5: PIN15-0570	14
3.6: F21661-6: PIN15-M31S	16
3.7: F21661-7: PIN15-M31D	18
3.8: F21661-8: PIN15-0537	20
3.9: F21661-9: PIN15-0538	22
3.10: F21661-10: PIN15-M34D	24
3.11: F21661-11: PIN15-0536	26
3.12: F21661-12: PIN15-RW15	28
3.13: F21661-13: PIN15-RW14	30
3.14: F21661-14: PIN15-RW13	32
3.15: F21661-15: PIN15-RW12	34
3.16: F21661-16: PIN15-RW06	36
3.17: F21661-17: PIN15-RW03	38
3.18: F21661-18: PIN15-RW17	40
3.19: F21661-19: PIN15-RW16	42
3.20: F21661-20: PIN18-0524	44
3.21: F21661-21: PIN18-0525	45
3.22: F21661-22: PIN18-0523	46
Section 4: Misc. Forms	47
4.1: Chain of Custody	48
Section 5: GC Volatiles - QC Data Summaries	51
5.1: Method Blank Summary	52
5.2: Blank Spike Summary	60
5.3: Matrix Spike/Matrix Spike Duplicate Summary	66
Section 6: Metals Analysis - QC Data Summaries	74
6.1: Prep QC MP6265: As	75

Sample Summary

S M Stoller

Job No: F21661

Quarterly Sampling, STAR Center, Largo, FL
 Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21661-1	01/15/04	10:00 PLG	01/16/04	AQ	Ground Water	PIN15-0571
F21661-2	01/15/04	00:00 PLG	01/16/04	AQ	Ground Water	PIN15-0581
F21661-3	01/15/04	10:45 PLG	01/16/04	AQ	Ground Water	PIN15-0572
F21661-4	01/15/04	00:00 PLG	01/16/04	AQ	Ground Water	PIN15-0580
F21661-5	01/15/04	11:25 PLG	01/16/04	AQ	Ground Water	PIN15-0570
F21661-6	01/15/04	12:45 PLG	01/16/04	AQ	Ground Water	PIN15-M31S
F21661-7	01/15/04	13:15 PLG	01/16/04	AQ	Ground Water	PIN15-M31D
F21661-8	01/15/04	14:00 PLG	01/16/04	AQ	Ground Water	PIN15-0537
F21661-9	01/15/04	14:35 PLG	01/16/04	AQ	Ground Water	PIN15-0538
F21661-10	01/15/04	15:30 PLG	01/16/04	AQ	Ground Water	PIN15-M34D
F21661-11	01/16/04	08:05 PLG	01/16/04	AQ	Ground Water	PIN15-0536
F21661-12	01/16/04	08:10 PLG	01/16/04	AQ	Ground Water	PIN15-RW15
F21661-13	01/16/04	08:20 PLG	01/16/04	AQ	Ground Water	PIN15-RW14



Sample Summary

(continued)

S M Stoller

Job No: F21661

Quarterly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21661-14	01/16/04	08:30 PLG	01/16/04	AQ	Ground Water	PIN15-RW13
F21661-15	01/16/04	08:40 PLG	01/16/04	AQ	Ground Water	PIN15-RW12
F21661-16	01/16/04	08:45 PLG	01/16/04	AQ	Ground Water	PIN15-RW06
F21661-17	01/16/04	08:55 PLG	01/16/04	AQ	Ground Water	PIN15-RW03
F21661-18	01/16/04	09:05 PLG	01/16/04	AQ	Ground Water	PIN15-RW17
F21661-19	01/16/04	09:15 PLG	01/16/04	AQ	Ground Water	PIN15-RW16
F21661-20	01/16/04	10:00 PLG	01/16/04	AQ	Ground Water	PIN18-0524
F21661-21	01/16/04	10:20 PLG	01/16/04	AQ	Ground Water	PIN18-0525
F21661-22	01/16/04	11:05 PLG	01/16/04	AQ	Ground Water	PIN18-0523

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Quarterly Sampling, STAR Center, Largo FL
Job No.: F21661
Report Date: January 30, 2004

22 samples were collected on January 15 and 16, 2004 and received on January 16, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs, SW846 8021B:

- Sample PIN15-0571 (F21661-1) required a 5X dilution due to foaming. Data has been footnoted accordingly.
- Samples PIN15-M31S (F21661-6), PIN15-M31D (F21661-7), PIN15-RW13 (F21661-14) required a 5X dilution due to foaming. Also, Methyl Tert Butyl Ether has an elevated reporting limit due to matrix interference. Data has been footnoted accordingly.
- Sample PIN15-RW16 (F21661-19) compound Methyl Tert Butyl Ether has an elevated reporting limit due to matrix interference. Data has been footnoted accordingly.
- Samples PIN150-0572 (F21661-3), PIN15-0580 (F21661-4), PIN15-0570 (F21661-5) required a 10X dilution due to foaming. Data has been footnoted accordingly.
- The MS/MSD associated with analytical batch GQR866 had various recoveries and RPDs below and/or above acceptance limits. Some recoveries were below acceptance limits due to a high level of this compound detected in the native sample relative to the spike amount. The Blank Spike was within limits. Data not adversely affected.
- The MS/MSD associated with analytical batch GQR867 had various recoveries and RPDs below and/or above acceptance limits. The Blank Spike was within limits. Data not adversely affected.

Metals, SW846 6010B:

- The Duplicate associated with batch MP6265 had one RPD above acceptance limits. The Blank Spike was within limits. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: January 30, 2004

Report of Analysis

Page 1 of 2

3-1
3

Client Sample ID: PIN15-0571
Lab Sample ID: F21661-1
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

Date Sampled: 01/15/04**Date Received:** 01/16/04**Percent Solids:** n/a

Run #1 ^a	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #2	QR020438.D	5	01/22/04	RA	n/a	n/a	GQR866

Purge Volume

Run #1 5.0 ml
 Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3-1

3

Client Sample ID: PIN15-0571**Lab Sample ID:** F21661-1**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	94%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	101%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	108%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-0581	Date Sampled:	01/15/04
Lab Sample ID:	F21661-2	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020450.D	1	01/22/04	RA	n/a	n/a	GQR866
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32
3

Client Sample ID:	PIN15-0581	Date Sampled:	01/15/04
Lab Sample ID:	F21661-2	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	101%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	106%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

33
3**Client Sample ID:** PIN15-0572**Lab Sample ID:** F21661-3**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020469.D	10	01/23/04	RA	n/a	n/a	GQR867
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	5.0	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

33
3**Client Sample ID:** PIN15-0572**Lab Sample ID:** F21661-3**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	10	5.0	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	106%		70-123%
563-58-6	1,1-Dichloropropene	98%		86-112%
563-58-6	1,1-Dichloropropene	111%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-0580	Date Sampled:	01/15/04
Lab Sample ID:	F21661-4	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020470.D	10	01/23/04	RA	n/a	n/a	GQR867
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	5.0	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

34
3

Client Sample ID:	PIN15-0580	Date Sampled:	01/15/04
Lab Sample ID:	F21661-4	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	10	5.0	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%		70-123%
563-58-6	1,1-Dichloropropene	99%		86-112%
563-58-6	1,1-Dichloropropene	107%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

35
3**Client Sample ID:** PIN15-0570**Lab Sample ID:** F21661-5**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020560.D	10	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	5.0	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

35
3

Client Sample ID:	PIN15-0570	Date Sampled:	01/15/04
Lab Sample ID:	F21661-5	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	ND	10	5.0	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	110%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

3.6
3**Client Sample ID:** PIN15-M31S**Lab Sample ID:** F21661-6**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020561.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^b	ND	15	15	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.6
3

Client Sample ID:	PIN15-M31S	Date Sampled:	01/15/04
Lab Sample ID:	F21661-6	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	91%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	110%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

37
3**Client Sample ID:** PIN15-M31D**Lab Sample ID:** F21661-7**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020562.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6.0	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^b	ND	25	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

37
3

Client Sample ID:	PIN15-M31D	Date Sampled:	01/15/04
Lab Sample ID:	F21661-7	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	101%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	106%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

38

3

Client Sample ID: PIN15-0537**Lab Sample ID:** F21661-8**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020494.D	5	01/24/04	RA	n/a	n/a	GQR867
Run #2	QR020539.D	50	01/27/04	RA	n/a	n/a	GQR869

Purge Volume

Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6.0	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	27.1	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	1340 ^a	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.5	5.0	2.5	ug/l	J
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	21.1	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	364 ^a	50	25	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

38
3

Client Sample ID:	PIN15-0537	Date Sampled:	01/15/04
Lab Sample ID:	F21661-8	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	668 ^a	50	25	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	95%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	87%	90%	70-123%
563-58-6	1,1-Dichloropropene	99%	101%	86-112%
563-58-6	1,1-Dichloropropene	89%	100%	86-112%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

39
3**Client Sample ID:** PIN15-0538**Lab Sample ID:** F21661-9**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020483.D	10	01/23/04	RA	n/a	n/a	GQR867
Run #2	QR020526.D	1000	01/26/04	RA	n/a	n/a	GQR869

Purge Volume

Run #1 5.0 ml

Run #2 5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	42.0	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	177	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	8.4	10	5.0	ug/l	J
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	25.2	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	459	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	5.0	ug/l	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

39
3

Client Sample ID:	PIN15-0538	Date Sampled:	01/15/04
Lab Sample ID:	F21661-9	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	12300 ^a	1000	500	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	97%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%	95%	70-123%
563-58-6	1,1-Dichloropropene	98%	101%	86-112%
563-58-6	1,1-Dichloropropene	100%	107%	86-112%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-M34D	Date Sampled:	01/15/04
Lab Sample ID:	F21661-10	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020529.D	1000	01/26/04	RA	n/a	n/a	GQR869
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1000	500	ug/l	
75-27-4	Bromodichloromethane	ND	1000	500	ug/l	
75-25-2	Bromoform	ND	1000	500	ug/l	
74-83-9	Bromomethane	ND	1000	500	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	500	ug/l	
108-90-7	Chlorobenzene	ND	1000	500	ug/l	
124-48-1	Dibromochloromethane	ND	1000	400	ug/l	
75-00-3	Chloroethane	ND	1000	500	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1000	500	ug/l	
67-66-3	Chloroform	ND	1000	500	ug/l	
74-87-3	Chloromethane	ND	1000	500	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	500	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	500	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	500	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	500	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	500	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	500	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1000	500	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	500	ug/l	
78-87-5	1,2-Dichloropropane	ND	1000	500	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	300	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	300	ug/l	
100-41-4	Ethylbenzene	ND	1000	500	ug/l	
75-09-2	Methylene chloride	ND	5000	1000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	500	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	200	ug/l	
127-18-4	Tetrachloroethene	ND	1000	500	ug/l	
108-88-3	Toluene	ND	1000	500	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	500	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	500	ug/l	
79-01-6	Trichloroethene	ND	1000	500	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-M34D	Date Sampled:	01/15/04
Lab Sample ID:	F21661-10	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1000	500	ug/l	
75-01-4	Vinyl chloride	10400	1000	500	ug/l	
95-47-6	o-Xylene	ND	1000	500	ug/l	
	m,p-Xylene	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	97%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	105%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-0536	Date Sampled:	01/16/04
Lab Sample ID:	F21661-11	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020530.D	200	01/26/04	RA	n/a	n/a	GQR869
Run #2	QR020557.D	500	01/27/04	RA	n/a	n/a	GQR870

Purge Volume	
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	200	100	ug/l	
75-27-4	Bromodichloromethane	ND	200	100	ug/l	
75-25-2	Bromoform	ND	200	100	ug/l	
74-83-9	Bromomethane	ND	200	100	ug/l	
56-23-5	Carbon tetrachloride	ND	200	100	ug/l	
108-90-7	Chlorobenzene	ND	200	100	ug/l	
124-48-1	Dibromochloromethane	ND	200	80	ug/l	
75-00-3	Chloroethane	ND	200	100	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	200	100	ug/l	
67-66-3	Chloroform	ND	200	100	ug/l	
74-87-3	Chloromethane	ND	200	100	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	200	100	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	200	100	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	200	100	ug/l	
75-71-8	Dichlorodifluoromethane	ND	200	100	ug/l	
75-34-3	1,1-Dichloroethane	ND	200	100	ug/l	
107-06-2	1,2-Dichloroethane	ND	200	100	ug/l	
75-35-4	1,1-Dichloroethene	149	200	100	ug/l	J
156-59-2	cis-1,2-Dichloroethene	2630	200	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	294	200	100	ug/l	
78-87-5	1,2-Dichloropropane	ND	200	100	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	200	60	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	200	60	ug/l	
100-41-4	Ethylbenzene	ND	200	100	ug/l	
75-09-2	Methylene chloride	ND	1000	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	200	100	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	40	ug/l	
127-18-4	Tetrachloroethene	ND	200	100	ug/l	
108-88-3	Toluene	ND	200	100	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	100	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	200	100	ug/l	
79-01-6	Trichloroethene	13600 ^b	500	250	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-0536	Date Sampled:	01/16/04
Lab Sample ID:	F21661-11	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	200	100	ug/l	
75-01-4	Vinyl chloride	248	200	100	ug/l	
95-47-6	o-Xylene	ND	200	100	ug/l	
	m,p-Xylene	ND	400	100	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	93%	97%	70-123%
563-58-6	1,1-Dichloropropene	101%	100%	86-112%
563-58-6	1,1-Dichloropropene	100%	100%	86-112%

(a) All hits confirmed by GC/MS.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-RW15	Date Sampled:	01/16/04
Lab Sample ID:	F21661-12	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020538.D	50	01/26/04	RA	n/a	n/a	GQR869
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	25	ug/l	
75-27-4	Bromodichloromethane	ND	50	25	ug/l	
75-25-2	Bromoform	ND	50	25	ug/l	
74-83-9	Bromomethane	ND	50	25	ug/l	
56-23-5	Carbon tetrachloride	ND	50	25	ug/l	
108-90-7	Chlorobenzene	ND	50	25	ug/l	
124-48-1	Dibromochloromethane	ND	50	20	ug/l	
75-00-3	Chloroethane	ND	50	25	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	50	25	ug/l	
67-66-3	Chloroform	ND	50	25	ug/l	
74-87-3	Chloromethane	ND	50	25	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	50	25	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	50	25	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	50	25	ug/l	
75-71-8	Dichlorodifluoromethane	ND	50	25	ug/l	
75-34-3	1,1-Dichloroethane	ND	50	25	ug/l	
107-06-2	1,2-Dichloroethane	ND	50	25	ug/l	
75-35-4	1,1-Dichloroethene	ND	50	25	ug/l	
156-59-2	cis-1,2-Dichloroethene	591	50	25	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	50	25	ug/l	
78-87-5	1,2-Dichloropropane	ND	50	25	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	50	15	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	50	15	ug/l	
100-41-4	Ethylbenzene	ND	50	25	ug/l	
75-09-2	Methylene chloride	ND	250	50	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	50	25	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	10	ug/l	
127-18-4	Tetrachloroethene	ND	50	25	ug/l	
108-88-3	Toluene	ND	50	25	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	50	25	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	50	25	ug/l	
79-01-6	Trichloroethene	1010	50	25	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-RW15	Date Sampled:	01/16/04
Lab Sample ID:	F21661-12	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	50	25	ug/l	
75-01-4	Vinyl chloride	164	50	25	ug/l	
95-47-6	o-Xylene	ND	50	25	ug/l	
	m,p-Xylene	ND	100	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	91%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	94%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	103%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID: PIN15-RW14
Lab Sample ID: F21661-13
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020540.D	100	01/27/04	RA	n/a	n/a	GQR869
Run #2							

Purge Volume
Run #1 5.0 ml
Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	1780	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	ND	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	ND	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	1160	100	50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-RW14	Date Sampled:	01/16/04
Lab Sample ID:	F21661-13	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	1330	100	50	ug/l	
95-47-6	o-Xylene	ND	100	50	ug/l	
	m,p-Xylene	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	104%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID: PIN15-RW13
Lab Sample ID: F21661-14
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020563.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	13.3	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^b	ND	10	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	67.4	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-RW13	Date Sampled:	01/16/04
Lab Sample ID:	F21661-14	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	44.6	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	94%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	110%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID: PIN15-RW12
Lab Sample ID: F21661-15
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

Date Sampled: 01/16/04**Date Received:** 01/16/04**Percent Solids:** n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020531.D	500	01/26/04	RA	n/a	n/a	GQR869
Run #2							

Purge Volume

Run #1 5.0 ml
 Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	500	250	ug/l	
75-27-4	Bromodichloromethane	ND	500	250	ug/l	
75-25-2	Bromoform	ND	500	250	ug/l	
74-83-9	Bromomethane	ND	500	250	ug/l	
56-23-5	Carbon tetrachloride	ND	500	250	ug/l	
108-90-7	Chlorobenzene	ND	500	250	ug/l	
124-48-1	Dibromochloromethane	ND	500	200	ug/l	
75-00-3	Chloroethane	ND	500	250	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	500	250	ug/l	
67-66-3	Chloroform	ND	500	250	ug/l	
74-87-3	Chloromethane	ND	500	250	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	500	250	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	500	250	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	500	250	ug/l	
75-71-8	Dichlorodifluoromethane	ND	500	250	ug/l	
75-34-3	1,1-Dichloroethane	ND	500	250	ug/l	
107-06-2	1,2-Dichloroethane	ND	500	250	ug/l	
75-35-4	1,1-Dichloroethene	ND	500	250	ug/l	
156-59-2	cis-1,2-Dichloroethene	3710	500	250	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	500	250	ug/l	
78-87-5	1,2-Dichloropropane	ND	500	250	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	500	150	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	500	150	ug/l	
100-41-4	Ethylbenzene	ND	500	250	ug/l	
75-09-2	Methylene chloride	ND	2500	500	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	500	250	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	500	100	ug/l	
127-18-4	Tetrachloroethene	ND	500	250	ug/l	
108-88-3	Toluene	313	500	250	ug/l	J
71-55-6	1,1,1-Trichloroethane	ND	500	250	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	500	250	ug/l	
79-01-6	Trichloroethene	279	500	250	ug/l	J

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-RW12	Date Sampled:	01/16/04
Lab Sample ID:	F21661-15	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	500	250	ug/l	
75-01-4	Vinyl chloride	3210	500	250	ug/l	
95-47-6	o-Xylene	ND	500	250	ug/l	
	m,p-Xylene	ND	1000	250	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	95%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	100%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-RW06	Date Sampled:	01/16/04
Lab Sample ID:	F21661-16	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020534.D	1000	01/26/04	RA	n/a	n/a	GQR869
Run #2	QR020558.D	5000	01/27/04	RA	n/a	n/a	GQR870

Purge Volume	
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1000	500	ug/l	
75-27-4	Bromodichloromethane	ND	1000	500	ug/l	
75-25-2	Bromoform	ND	1000	500	ug/l	
74-83-9	Bromomethane	ND	1000	500	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	500	ug/l	
108-90-7	Chlorobenzene	ND	1000	500	ug/l	
124-48-1	Dibromochloromethane	ND	1000	400	ug/l	
75-00-3	Chloroethane	ND	1000	500	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1000	500	ug/l	
67-66-3	Chloroform	ND	1000	500	ug/l	
74-87-3	Chloromethane	ND	1000	500	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	500	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	500	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	500	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	500	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	500	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	500	ug/l	
156-59-2	cis-1,2-Dichloroethene	48800	1000	500	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	500	ug/l	
78-87-5	1,2-Dichloropropane	ND	1000	500	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	300	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	300	ug/l	
100-41-4	Ethylbenzene	ND	1000	500	ug/l	
75-09-2	Methylene chloride	157000 ^a	25000	5000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	500	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	200	ug/l	
127-18-4	Tetrachloroethene	ND	1000	500	ug/l	
108-88-3	Toluene	19500	1000	500	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	500	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	500	ug/l	
79-01-6	Trichloroethene	21300	1000	500	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-RW06	Date Sampled:	01/16/04
Lab Sample ID:	F21661-16	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1000	500	ug/l	
75-01-4	Vinyl chloride	6140	1000	500	ug/l	
95-47-6	o-Xylene	ND	1000	500	ug/l	
	m,p-Xylene	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	94%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	88%	94%	70-123%
563-58-6	1,1-Dichloropropene	101%	100%	86-112%
563-58-6	1,1-Dichloropropene	96%	100%	86-112%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-RW03	Date Sampled:	01/16/04
Lab Sample ID:	F21661-17	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020535.D	1000	01/26/04	RA	n/a	n/a	GQR869
Run #2	QR020559.D	5000	01/27/04	RA	n/a	n/a	GQR870

Purge Volume	
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1000	500	ug/l	
75-27-4	Bromodichloromethane	ND	1000	500	ug/l	
75-25-2	Bromoform	ND	1000	500	ug/l	
74-83-9	Bromomethane	ND	1000	500	ug/l	
56-23-5	Carbon tetrachloride	ND	1000	500	ug/l	
108-90-7	Chlorobenzene	ND	1000	500	ug/l	
124-48-1	Dibromochloromethane	ND	1000	400	ug/l	
75-00-3	Chloroethane	ND	1000	500	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1000	500	ug/l	
67-66-3	Chloroform	ND	1000	500	ug/l	
74-87-3	Chloromethane	ND	1000	500	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1000	500	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1000	500	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1000	500	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1000	500	ug/l	
75-34-3	1,1-Dichloroethane	ND	1000	500	ug/l	
107-06-2	1,2-Dichloroethane	ND	1000	500	ug/l	
75-35-4	1,1-Dichloroethene	ND	1000	500	ug/l	
156-59-2	cis-1,2-Dichloroethene	23400	1000	500	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1000	500	ug/l	
78-87-5	1,2-Dichloropropane	ND	1000	500	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1000	300	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1000	300	ug/l	
100-41-4	Ethylbenzene	ND	1000	500	ug/l	
75-09-2	Methylene chloride	138000 ^b	25000	5000	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1000	500	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1000	200	ug/l	
127-18-4	Tetrachloroethene	ND	1000	500	ug/l	
108-88-3	Toluene	15000	1000	500	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1000	500	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1000	500	ug/l	
79-01-6	Trichloroethene	22100	1000	500	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-RW03	Date Sampled:	01/16/04
Lab Sample ID:	F21661-17	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1000	500	ug/l	
75-01-4	Vinyl chloride	7140	1000	500	ug/l	
95-47-6	o-Xylene	ND	1000	500	ug/l	
	m,p-Xylene	ND	2000	500	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	90%	97%	70-123%
563-58-6	1,1-Dichloropropene	101%	101%	86-112%
563-58-6	1,1-Dichloropropene	96%	107%	86-112%

(a) All hits confirmed by GC/MS.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-RW17	Date Sampled:	01/16/04
Lab Sample ID:	F21661-18	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020487.D	10	01/23/04	RA	n/a	n/a	GQR867
Run #2	QR020536.D	1000	01/26/04	RA	n/a	n/a	GQR869

Purge Volume	
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	57.5	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	7.9	10	5.0	ug/l	J
75-35-4	1,1-Dichloroethene	110	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	43400 ^a	1000	500	ug/l	
156-60-5	trans-1,2-Dichloroethene	31.7	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
75-09-2	Methylene chloride	352	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether	34.1	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	1130 ^a	1000	500	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	291	10	5.0	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-RW17	Date Sampled:	01/16/04
Lab Sample ID:	F21661-18	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	13200 ^a	1000	500	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	100%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	67%	87%	70-123%
563-58-6	1,1-Dichloropropene	103%	101%	86-112%
563-58-6	1,1-Dichloropropene	70%	96%	86-112%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-RW16	Date Sampled:	01/16/04
Lab Sample ID:	F21661-19	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020537.D	10	01/26/04	RA	n/a	n/a	GQR869
Run #2	QR020556.D	50	01/27/04	RA	n/a	n/a	GQR870

Purge Volume	
Run #1	5.0 ml
Run #2	5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	6.4	10	5.0	ug/l	J
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	451	10	5.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
75-09-2	Methylene chloride	ND	50	10	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	15	15	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	ND	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	ND	10	5.0	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-RW16	Date Sampled:	01/16/04
Lab Sample ID:	F21661-19	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	925 ^b	50	25	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	88%	90%	70-123%
563-58-6	1,1-Dichloropropene	100%	101%	86-112%
563-58-6	1,1-Dichloropropene	96%	100%	86-112%

(a) Elevated reporting limits due to matrix interference.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-0524	Date Sampled:	01/16/04
Lab Sample ID:	F21661-20	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	27.6	10	3.5	ug/l	1	01/27/04	01/28/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3654
(2) Prep QC Batch: MP6265

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-0525	Date Sampled:	01/16/04
Lab Sample ID:	F21661-21	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	112	10	3.5	ug/l	1	01/27/04	01/28/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3654

(2) Prep QC Batch: MP6265

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-0523	Date Sampled:	01/16/04
Lab Sample ID:	F21661-22	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	01/27/04	01/28/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3654

(2) Prep QC Batch: MP6265

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

F21661
ACCUTEST JO#:

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES		
NAME: S.M. Stoller ADDRESS: 2077 B 34 Rd CITY: Grand Junction CO ZIP: 81503 STATE: CO SEND REPORT TO: Keith Miller PHONE #: 970-248-6598			PROJECT NAME: STAR Center LOCATION: Largo, FL PROJECT NO.: 10406202 Onsite Contact: Barry Rice FAX #: 727-5794121			8221			DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID		
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION		COLLECTION		MATRIX BY:	# OF BOTTLES	PRESERVATION			LAB USE ONLY	
			DATE	TIME			SAMPLED BY:	NOH	IMM	HSR04	None
1	PIN15-0571		1-15-04	1000	PLG	GW	3	3	3		
2	PIN15-0581		1-15-04	—	PLG	GW	3	3	3		
3	PIN15-0572		1-15-04	1045	PLG	GW	3	3	3		
4	PIN15-0580		1-15-04	—	PLG	GW	3	3	3		
5	PIN15-0570		1-15-04	1125	PLG	GW	3	3	3		
6	PIN15-M315		1-15-04	1245	PLG	GW	3	3	3		
7	PIN15-M31D		1-15-04	1315	PLG	GW	3	3	3		
8	PIN15-0537		1-15-04	1400	PLG	GW	3	3	3		
9	PIN15-9538		1-15-04	1435	PLG	GW	3	3	3		
10	PIN15-M34D		1-15-04	1530	PLG	GW	3	3	3		
11	PIN15-0536		1-16-04	0805	PLG	GW	3	3	3		
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS					
<input type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			<input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
RELINQUISHED BY SAMPLER: 1. <i>Maria L. Brown</i>	DATE/TIME: 1-16-04 10:30	RECEIVED BY: 1. CL-Brown 1/16/04 10:30	RELINQUISHED BY: 2. <i>M. Wall</i> 1/16/04	DATE/TIME: 19:00	RECEIVED BY: <i>J. Carlos R.</i>						
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY: 4.	DATE/TIME:	RECEIVED BY: 4.						
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE		ON ICE	TEMPERATURE	Z-8°C			

F21661: Chain of Custody

Page 1 of 3



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST ONLY:
ACCUTEST REFERENCE:

F21661

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES		
NAME: S.M. Stoller ADDRESS: 2597 B 3/4 Rd CITY: Grand Junction CO STATE: ZIP: 81503 SEND REPORT TO: Keith Miller PHONE #: 970-248-6598			PROJECT NAME: STAR Center LOCATION: Largo, FL PROJECT NO.: 110406202 FAX #: 727-549-1121						DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID		
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION			LAB USE ONLY	
		DATE	TIME	SAMPLED BY:			HCl	NaOH	HNO3		
12	PIN15-RW15	1-16-04	0810	PLG	GW	3	3				
13	PIN15-RW14	1-16-04	0820	PLG	GW	3	3				
14	PIN15-RW13	1-16-04	0830	PLG	GW	3	3				
15	PIN15-RW12	1-16-04	0840	PLG	GW	3	3				
16	PIN15-RW06	1-16-04	0845	PLG	GW	3	3				
17	PIN15-RW03	1-16-04	0855	PLG	GW	3	3				
18	PIN15-RW17	1-16-04	0905	PLG	GW	3	3				
19	PIN15-RW16	1-16-04	0915	PLG	GW	3	3				
20	PIN18-0524	1-16-04	1000	PLG	GW	3	3				
21	PIN18-0525	1-16-04	1020	PLG	GW	1					
22	PIN18-0523	1-16-04	1105	PLG	GW	1					
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS					
<input type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			<input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
RELINQUISHED BY & DATED:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	
1. <i>Barry R. Rice</i>	1-16-04 12:50	1. <i>Keith Miller</i>	1-16-04 13:50	19:00	2. <i>Barry R. Rice</i>	4.	19:00	3. <i>Barry R. Rice</i>	4.	19:00	
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	
3.		3.									
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	
5.		5.									
			SEAL #	PRESERVE WHERE APPLICABLE			<input type="checkbox"/>	ON ICE	TEMPERATURE	2.8 C	

F21661: Chain of Custody

Page 2 of 3

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number:

F21661Client: S. M. Stoller Project: store centerDate Received: 1/16/04 Time Received: 19:00# of Coolers Received: 1 Cooler Temperatures: 2-8Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number: _____

Cooler Custody Seals Intact ?	<input checked="" type="radio"/> Yes	No
Chain of Custody Provided ?	<input checked="" type="radio"/> Yes	No
COC Match Bottle Label ID's ?	<input checked="" type="radio"/> Yes	No
Sample Labels Present on all bottles ?	<input checked="" type="radio"/> Yes	No
All Analyses Marked On COC ?	<input checked="" type="radio"/> Yes	No
Are All Bottles Intact ?	<input checked="" type="radio"/> Yes	No
Samples Preserved Correctly ?	<input checked="" type="radio"/> Yes	No
Correct Number of Containers Used ?	<input checked="" type="radio"/> Yes	No
Sufficient Sample Volume ?	<input checked="" type="radio"/> Yes	No
Trip Blank Provided ?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Trip Blank on COC ?	<input checked="" type="radio"/> Yes	<input checked="" type="radio"/> No
Trip Blank Intact ?	<input checked="" type="radio"/> Yes	No <u>N/A</u>
Trip Blank Matrix ?	Soil	Water <u>N/A</u>

Number of Encores ? 0Number of Soil Field Kits ? 0

Summary of Comments: _____

_____Signature: Carlo Foy Date: 1/16/04Review Signature: Munawar Hussain

ASBD 12/30/03

F21661: Chain of Custody**Page 3 of 3**

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR866-MB	QR020432.D 1		01/22/04	RA	n/a	n/a	GQR866

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-1, F21661-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR866-MB	QR020432.D 1		01/22/04	RA	n/a	n/a	GQR866

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-1, F21661-2

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	104%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	106%	86-112%

Method Blank Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR867-MB	QR020468.D 1		01/23/04	RA	n/a	n/a	GQR867

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-3, F21661-4, F21661-8, F21661-9, F21661-18

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR867-MB	QR020468.D 1		01/23/04	RA	n/a	n/a	GQR867

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-3, F21661-4, F21661-8, F21661-9, F21661-18

CAS No.	Surrogate Recoveries	Limits
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352-33-0	1-Chloro-4-fluorobenzene	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
563-58-6	1,1-Dichloropropene	99%	86-112%
563-58-6	1,1-Dichloropropene	111%	86-112%

Method Blank Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR869-MB	QR020524.D 1		01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-8, F21661-9, F21661-10, F21661-11, F21661-12, F21661-13, F21661-15, F21661-16, F21661-17, F21661-18, F21661-19

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR869-MB	QR020524.D	1	01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-8, F21661-9, F21661-10, F21661-11, F21661-12, F21661-13, F21661-15, F21661-16, F21661-17, F21661-18, F21661-19

CAS No.	Surrogate Recoveries	Limits
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352-33-0	1-Chloro-4-fluorobenzene	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%	70-123%
563-58-6	1,1-Dichloropropene	101%	86-112%
563-58-6	1,1-Dichloropropene	108%	86-112%

Method Blank Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR870-MB	QR020555.D 1		01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-5, F21661-6, F21661-7, F21661-11, F21661-14, F21661-16, F21661-17, F21661-19

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR870-MB	QR020555.D 1		01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-5, F21661-6, F21661-7, F21661-11, F21661-14, F21661-16, F21661-17, F21661-19

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	108%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR867-BS	QR020467.D 1		01/23/04	RA	n/a	n/a	GQR867

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-3, F21661-4, F21661-8, F21661-9, F21661-18

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	22.4	112	86-121
75-27-4	Bromodichloromethane	20	19.7	99	82-107
75-25-2	Bromoform	20	18.2	91	74-111
74-83-9	Bromomethane	20	20.2	101	64-132
56-23-5	Carbon tetrachloride	20	20.9	105	92-129
108-90-7	Chlorobenzene	20	20.0	100	81-119
124-48-1	Dibromochloromethane	20	17.5	88	77-109
75-00-3	Chloroethane	20	21.1	106	83-125
110-75-8	2-Chloroethylvinyl ether	20	18.0	90	45-150
67-66-3	Chloroform	20	18.4	92	85-111
74-87-3	Chloromethane	20	17.1	86	65-141
95-50-1	1,2-Dichlorobenzene	20	18.8	94	75-120
541-73-1	1,3-Dichlorobenzene	20	19.5	98	77-121
106-46-7	1,4-Dichlorobenzene	20	19.8	99	75-122
75-71-8	Dichlorodifluoromethane	20	29.3	147	51-152
75-34-3	1,1-Dichloroethane	20	20.3	102	94-126
107-06-2	1,2-Dichloroethane	20	19.8	99	88-116
75-35-4	1,1-Dichloroethene	20	21.4	107	83-134
156-59-2	cis-1,2-Dichloroethene	20	22.4	112	83-115
156-60-5	trans-1,2-Dichloroethene	20	20.0	100	94-129
78-87-5	1,2-Dichloropropane	20	19.7	99	90-118
10061-01-5	cis-1,3-Dichloropropene	20	19.7	99	96-125
10061-02-6	trans-1,3-Dichloropropene	20	18.4	92	85-120
100-41-4	Ethylbenzene	20	20.8	104	81-126
75-09-2	Methylene chloride	20	20.0	100	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.4	97	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	18.5	93	82-119
127-18-4	Tetrachloroethene	20	20.3	102	94-125
108-88-3	Toluene	20	20.4	102	82-123
71-55-6	1,1,1-Trichloroethane	20	19.8	99	89-127
79-00-5	1,1,2-Trichloroethane	20	18.6	93	86-117
79-01-6	Trichloroethene	20	19.8	99	92-124
75-69-4	Trichlorofluoromethane	20	21.8	109	77-139
75-01-4	Vinyl chloride	20	22.3	112	59-146
95-47-6	o-Xylene	20	20.1	101	81-123
	m,p-Xylene	40	41.0	103	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR867-BS	QR020467.D 1		01/23/04	RA	n/a	n/a	GQR867

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-3, F21661-4, F21661-8, F21661-9, F21661-18

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%	70-123%
563-58-6	1,1-Dichloropropene	99%	86-112%
563-58-6	1,1-Dichloropropene	99%	86-112%

Blank Spike Summary

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR869-BS	QR020523.D 1		01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:**Method:** SW846 8021B

F21661-8, F21661-9, F21661-10, F21661-11, F21661-12, F21661-13, F21661-15, F21661-16, F21661-17, F21661-18, F21661-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.6	103	86-121
75-27-4	Bromodichloromethane	20	18.6	93	82-107
75-25-2	Bromoform	20	18.4	92	74-111
74-83-9	Bromomethane	20	21.3	107	64-132
56-23-5	Carbon tetrachloride	20	19.8	99	92-129
108-90-7	Chlorobenzene	20	19.4	97	81-119
124-48-1	Dibromochloromethane	20	17.8	89	77-109
75-00-3	Chloroethane	20	20.2	101	83-125
110-75-8	2-Chloroethylvinyl ether	20	18.5	93	45-150
67-66-3	Chloroform	20	19.1	96	85-111
74-87-3	Chloromethane	20	24.0	120	65-141
95-50-1	1,2-Dichlorobenzene	20	18.8	94	75-120
541-73-1	1,3-Dichlorobenzene	20	19.1	96	77-121
106-46-7	1,4-Dichlorobenzene	20	18.9	95	75-122
75-71-8	Dichlorodifluoromethane	20	27.3	137	51-152
75-34-3	1,1-Dichloroethane	20	18.9	95	94-126
107-06-2	1,2-Dichloroethane	20	19.4	97	88-116
75-35-4	1,1-Dichloroethene	20	22.0	110	83-134
156-59-2	cis-1,2-Dichloroethene	20	20.6	103	83-115
156-60-5	trans-1,2-Dichloroethene	20	20.0	100	94-129
78-87-5	1,2-Dichloropropane	20	18.8	94	90-118
10061-01-5	cis-1,3-Dichloropropene	20	19.2	96	96-125
10061-02-6	trans-1,3-Dichloropropene	20	17.9	90	85-120
100-41-4	Ethylbenzene	20	21.1	106	81-126
75-09-2	Methylene chloride	20	19.1	96	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.1	96	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	18.5	93	82-119
127-18-4	Tetrachloroethene	20	20.0	100	94-125
108-88-3	Toluene	20	20.6	103	82-123
71-55-6	1,1,1-Trichloroethane	20	19.0	95	89-127
79-00-5	1,1,2-Trichloroethane	20	18.9	95	86-117
79-01-6	Trichloroethene	20	20.2	101	92-124
75-69-4	Trichlorofluoromethane	20	21.6	108	77-139
75-01-4	Vinyl chloride	20	22.8	114	59-146
95-47-6	o-Xylene	20	20.3	102	81-123
	m,p-Xylene	40	41.4	104	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR869-BS	QR020523.D 1		01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-8, F21661-9, F21661-10, F21661-11, F21661-12, F21661-13, F21661-15, F21661-16, F21661-17, F21661-18, F21661-19

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	104%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%	70-123%
563-58-6	1,1-Dichloropropene	101%	86-112%
563-58-6	1,1-Dichloropropene	95%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR870-BS	QR020554.D 1		01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-5, F21661-6, F21661-7, F21661-11, F21661-14, F21661-16, F21661-17, F21661-19

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.1	101	86-121
75-27-4	Bromodichloromethane	20	19.7	99	82-107
75-25-2	Bromoform	20	18.1	91	74-111
74-83-9	Bromomethane	20	21.8	109	64-132
56-23-5	Carbon tetrachloride	20	21.1	106	92-129
108-90-7	Chlorobenzene	20	20.6	103	81-119
124-48-1	Dibromochloromethane	20	17.9	90	77-109
75-00-3	Chloroethane	20	21.3	107	83-125
110-75-8	2-Chloroethylvinyl ether	20	25.9	130	45-150
67-66-3	Chloroform	20	19.3	97	85-111
74-87-3	Chloromethane	20	26.2	131	65-141
95-50-1	1,2-Dichlorobenzene	20	19.9	100	75-120
541-73-1	1,3-Dichlorobenzene	20	20.1	101	77-121
106-46-7	1,4-Dichlorobenzene	20	20.0	100	75-122
75-71-8	Dichlorodifluoromethane	20	27.0	135	51-152
75-34-3	1,1-Dichloroethane	20	20.1	101	94-126
107-06-2	1,2-Dichloroethane	20	19.7	99	88-116
75-35-4	1,1-Dichloroethene	20	22.8	114	83-134
156-59-2	cis-1,2-Dichloroethene	20	21.3	107	83-115
156-60-5	trans-1,2-Dichloroethene	20	21.1	106	94-129
78-87-5	1,2-Dichloropropane	20	20.2	101	90-118
10061-01-5	cis-1,3-Dichloropropene	20	20.2	101	96-125
10061-02-6	trans-1,3-Dichloropropene	20	18.3	92	85-120
100-41-4	Ethylbenzene	20	20.5	103	81-126
75-09-2	Methylene chloride	20	18.8	94	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.1	96	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	18.7	94	82-119
127-18-4	Tetrachloroethene	20	20.6	103	94-125
108-88-3	Toluene	20	20.0	100	82-123
71-55-6	1,1,1-Trichloroethane	20	20.0	100	89-127
79-00-5	1,1,2-Trichloroethane	20	18.9	95	86-117
79-01-6	Trichloroethene	20	21.1	106	92-124
75-69-4	Trichlorofluoromethane	20	21.7	109	77-139
75-01-4	Vinyl chloride	20	23.0	115	59-146
95-47-6	o-Xylene	20	19.6	98	81-123
	m,p-Xylene	40	40.1	100	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR870-BS	QR020554.D 1		01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-5, F21661-6, F21661-7, F21661-11, F21661-14, F21661-16, F21661-17, F21661-19

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	99%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21629-17MS	QR020441.D 1		01/22/04	RA	n/a	n/a	GQR866
F21629-17MSD	QR020442.D 1		01/22/04	RA	n/a	n/a	GQR866
F21629-17	QR020436.D 10		01/22/04	RA	n/a	n/a	GQR866

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-1, F21661-2

CAS No.	Compound	F21629-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	20.8	104	20.6	103	1	77-125/6	
75-27-4	Bromodichloromethane	ND	20	19.0	95	20.0	100	5	77-111/9	
75-25-2	Bromoform	ND	20	18.2	91	18.7	94	3	69-117/9	
74-83-9	Bromomethane	ND	20	21.8	109	23.2	116	6	60-134/14	
56-23-5	Carbon tetrachloride	ND	20	20.2	101	20.9	105	3	83-133/8	
108-90-7	Chlorobenzene	ND	20	19.5	98	20.5	103	5	78-120/8	
124-48-1	Dibromochloromethane	ND	20	17.3	87	18.2	91	5	70-117/9	
75-00-3	Chloroethane	ND	20	22.9	115	23.4	117	2	66-135/13	
110-75-8	2-Chloroethylvinyl ether	ND	20	4.4	22	2.9	15*	41*	20-122/32	
67-66-3	Chloroform	ND	20	18.3	92	19.1	96	4	80-116/7	
74-87-3	Chloromethane	ND	20	19.9	100	19.4	97	3	42-154/21	
95-50-1	1,2-Dichlorobenzene	ND	20	18.7	94	18.8	94	1	69-125/7	
541-73-1	1,3-Dichlorobenzene	ND	20	18.9	95	20.1	101	6	71-126/7	
106-46-7	1,4-Dichlorobenzene	ND	20	19.7	99	20.4	102	3	67-129/7	
75-71-8	Dichlorodifluoromethane	ND	20	30.4	152	32.5	163	7	19-163/14	
75-34-3	1,1-Dichloroethane	ND	20	20.0	100	20.4	102	2	90-129/8	
107-06-2	1,2-Dichloroethane	ND	20	19.0	95	20.2	101	6	87-117/7	
75-35-4	1,1-Dichloroethene	ND	20	21.2	106	22.8	114	7	81-139/19	
156-59-2	cis-1,2-Dichloroethene	154	20	31.5	-613* ^a	31.7	-612* ^a	1	80-116/8	
156-60-5	trans-1,2-Dichloroethene	ND	20	20.1	101	21.0	105	4	88-133/9	
78-87-5	1,2-Dichloropropane	ND	20	19.2	96	19.8	99	3	86-123/9	
10061-01-5	cis-1,3-Dichloropropene	ND	20	19.1	96	20.6	103	8	86-129/10	
10061-02-6	trans-1,3-Dichloropropene	ND	20	18.0	90	18.5	93	3	74-125/11	
100-41-4	Ethylbenzene	ND	20	19.5	98	19.3	97	1	74-127/6	
75-09-2	Methylene chloride	ND	20	20.7	104	21.9	110	6	61-144/26	
1634-04-4	Methyl Tert Butyl Ether	ND	20	17.7	89	17.7	89	0	66-127/9	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	18.9	95	19.9	100	5	80-126/10	
127-18-4	Tetrachloroethene	ND	20	20.0	100	20.4	102	2	91-125/8	
108-88-3	Toluene	ND	20	19.0	95	18.8	94	1	77-124/5	
71-55-6	1,1,1-Trichloroethane	ND	20	18.9	95	19.8	99	5	85-129/9	
79-00-5	1,1,2-Trichloroethane	ND	20	19.0	95	19.9	100	5	85-119/9	
79-01-6	Trichloroethene	ND	20	19.1	96	20.2	101	6	88-124/8	
75-69-4	Trichlorofluoromethane	ND	20	21.2	106	20.5	103	3	68-135/15	
75-01-4	Vinyl chloride	162	20	34.6	-637* ^a	35.0	-635* ^a	1	43-150/22	
95-47-6	o-Xylene	ND	20	18.8	94	18.8	94	0	77-122/5	
	m,p-Xylene	ND	40	38.2	96	37.8	95	1	75-127/6	

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21629-17MS	QR020441.D	1	01/22/04	RA	n/a	n/a	GQR866
F21629-17MSD	QR020442.D	1	01/22/04	RA	n/a	n/a	GQR866
F21629-17	QR020436.D	10	01/22/04	RA	n/a	n/a	GQR866

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-1, F21661-2

CAS No.	Surrogate Recoveries	MS	MSD	F21629-17	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	103%	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%	104%	94%	70-123%
563-58-6	1,1-Dichloropropene	100%	100%	100%	86-112%
563-58-6	1,1-Dichloropropene	99%	101%	99%	86-112%

(a) Outside control limits due to high level in sample relative to spike amount.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21629-30MS	QR020479.D	10	01/23/04	RA	n/a	n/a	GQR867
F21629-30MSD	QR020480.D	10	01/23/04	RA	n/a	n/a	GQR867
F21629-30 ^a	QR020474.D	10	01/23/04	RA	n/a	n/a	GQR867

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-3, F21661-4, F21661-8, F21661-9, F21661-18

CAS No.	Compound	F21629-30 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	200	220	110	219	110	0	77-125/6	
75-27-4	Bromodichloromethane	ND	200	199	100	197	99	1	77-111/9	
75-25-2	Bromoform	ND	200	190	95	193	97	2	69-117/9	
74-83-9	Bromomethane	ND	200	203	102	219	110	8	60-134/14	
56-23-5	Carbon tetrachloride	ND	200	208	104	209	105	0	83-133/8	
108-90-7	Chlorobenzene	ND	200	203	102	205	103	1	78-120/8	
124-48-1	Dibromochloromethane	ND	200	185	93	185	93	0	70-117/9	
75-00-3	Chloroethane	ND	200	212	106	214	107	1	66-135/13	
110-75-8	2-Chloroethylvinyl ether	ND	200	15.5	8*	10.7	5*	37*	20-122/32	
67-66-3	Chloroform	ND	200	189	95	194	97	3	80-116/7	
74-87-3	Chloromethane	ND	200	180	90	203	102	12	42-154/21	
95-50-1	1,2-Dichlorobenzene	ND	200	192	96	190	95	1	69-125/7	
541-73-1	1,3-Dichlorobenzene	ND	200	201	101	199	100	1	71-126/7	
106-46-7	1,4-Dichlorobenzene	ND	200	199	100	198	99	1	67-129/7	
75-71-8	Dichlorodifluoromethane	ND	200	302	151	323	162	7	19-163/14	
75-34-3	1,1-Dichloroethane	ND	200	199	100	205	103	3	90-129/8	
107-06-2	1,2-Dichloroethane	ND	200	202	101	200	100	1	87-117/7	
75-35-4	1,1-Dichloroethene	ND	200	221	111	221	111	0	81-139/19	
156-59-2	cis-1,2-Dichloroethene	ND	200	222	111	221	111	0	80-116/8	
156-60-5	trans-1,2-Dichloroethene	ND	200	186	93	190	95	2	88-133/9	
78-87-5	1,2-Dichloropropane	ND	200	200	100	199	100	1	86-123/9	
10061-01-5	cis-1,3-Dichloropropene	ND	200	202	101	200	100	1	86-129/10	
10061-02-6	trans-1,3-Dichloropropene	ND	200	191	96	188	94	2	74-125/11	
100-41-4	Ethylbenzene	ND	200	205	103	204	102	0	74-127/6	
75-09-2	Methylene chloride	ND	200	202	101	199	100	1	61-144/26	
1634-04-4	Methyl Tert Butyl Ether	ND	200	190	95	188	94	1	66-127/9	
79-34-5	1,1,2,2-Tetrachloroethane	ND	200	201	101	206	103	2	80-126/10	
127-18-4	Tetrachloroethene	ND	200	202	101	206	103	2	91-125/8	
108-88-3	Toluene	ND	200	199	100	199	100	0	77-124/5	
71-55-6	1,1,1-Trichloroethane	ND	200	203	102	199	100	2	85-129/9	
79-00-5	1,1,2-Trichloroethane	ND	200	197	99	197	99	0	85-119/9	
79-01-6	Trichloroethene	ND	200	209	105	204	102	2	88-124/8	
75-69-4	Trichlorofluoromethane	ND	200	223	112	247	124	10	68-135/15	
75-01-4	Vinyl chloride	ND	200	238	119	241	121	1	43-150/22	
95-47-6	o-Xylene	ND	200	196	98	196	98	0	77-122/5	
	m,p-Xylene	ND	400	400	100	399	100	0	75-127/6	

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21629-30MS	QR020479.D	10	01/23/04	RA	n/a	n/a	GQR867
F21629-30MSD	QR020480.D	10	01/23/04	RA	n/a	n/a	GQR867
F21629-30 ^a	QR020474.D	10	01/23/04	RA	n/a	n/a	GQR867

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-3, F21661-4, F21661-8, F21661-9, F21661-18

CAS No.	Surrogate Recoveries	MS	MSD	F21629-30	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	102%	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%	102%	103%	70-123%
563-58-6	1,1-Dichloropropene	99%	98%	99%	86-112%
563-58-6	1,1-Dichloropropene	99%	100%	109%	86-112%

(a) Dilution required due to matrix interference (sample foamed).

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21661-9MS	QR020527.D	1000	01/26/04	RA	n/a	n/a	GQR869
F21661-9MSD	QR020528.D	1000	01/26/04	RA	n/a	n/a	GQR869
F21661-9	QR020526.D	1000	01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-8, F21661-9, F21661-10, F21661-11, F21661-12, F21661-13, F21661-15, F21661-16, F21661-17, F21661-18, F21661-19

CAS No.	Compound	F21661-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20000	19400	97	19200	96	1	77-125/6
75-27-4	Bromodichloromethane	ND		20000	19400	97	19100	96	2	77-111/9
75-25-2	Bromoform	ND		20000	18800	94	18600	93	1	69-117/9
74-83-9	Bromomethane	ND		20000	22400	112	21900	110	2	60-134/14
56-23-5	Carbon tetrachloride	ND		20000	19700	99	19900	100	1	83-133/8
108-90-7	Chlorobenzene	ND		20000	20000	100	19900	100	1	78-120/8
124-48-1	Dibromochloromethane	ND		20000	18300	92	18600	93	2	70-117/9
75-00-3	Chloroethane	ND		20000	20300	102	21000	105	3	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		20000	ND	0*	ND	0*	nc	20-122/32
67-66-3	Chloroform	ND		20000	19300	97	19000	95	2	80-116/7
74-87-3	Chloromethane	ND		20000	25100	126	23900	120	5	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		20000	19500	98	19300	97	1	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		20000	19900	100	19200	96	4	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		20000	19900	100	19400	97	3	67-129/7
75-71-8	Dichlorodifluoromethane	ND		20000	28000	140	28300	142	1	19-163/14
75-34-3	1,1-Dichloroethane	ND		20000	19700	99	19400	97	2	90-129/8
107-06-2	1,2-Dichloroethane	ND		20000	19100	96	19400	97	2	87-117/7
75-35-4	1,1-Dichloroethene	ND		20000	21800	109	21900	110	0	81-139/19
156-59-2	cis-1,2-Dichloroethene	ND		20000	21400	107	21100	106	1	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND		20000	20200	101	20300	102	0	88-133/9
78-87-5	1,2-Dichloropropane	ND		20000	19600	98	20100	101	3	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		20000	19500	98	19200	96	2	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		20000	18100	91	18100	91	0	74-125/11
100-41-4	Ethylbenzene	ND		20000	19800	99	19400	97	2	74-127/6
75-09-2	Methylene chloride	ND		20000	19000	95	19700	99	4	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND		20000	18300	92	18300	92	0	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		20000	18600	93	18600	93	0	80-126/10
127-18-4	Tetrachloroethene	ND		20000	20700	104	20800	104	0	91-125/8
108-88-3	Toluene	ND		20000	19600	98	19400	97	1	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		20000	19700	99	20000	100	2	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		20000	19500	98	18800	94	4	85-119/9
79-01-6	Trichloroethene	ND		20000	20500	103	20200	101	1	88-124/8
75-69-4	Trichlorofluoromethane	ND		20000	22000	110	22400	112	2	68-135/15
75-01-4	Vinyl chloride	12300		20000	35700	117	35800	118	0	43-150/22
95-47-6	o-Xylene	ND		20000	18900	95	18800	94	1	77-122/5
	m,p-Xylene	ND		40000	38700	97	38000	95	2	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21661-9MS	QR020527.D	1000	01/26/04	RA	n/a	n/a	GQR869
F21661-9MSD	QR020528.D	1000	01/26/04	RA	n/a	n/a	GQR869
F21661-9	QR020526.D	1000	01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-8, F21661-9, F21661-10, F21661-11, F21661-12, F21661-13, F21661-15, F21661-16, F21661-17, F21661-18, F21661-19

CAS No.	Surrogate Recoveries	MS	MSD	F21661-9	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	103%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	101%	95%	70-123%
563-58-6	1,1-Dichloropropene	101%	101%	101%	86-112%
563-58-6	1,1-Dichloropropene	97%	97%	107%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21661-16MS	QR020565.D	5000	01/27/04	RA	n/a	n/a	GQR870
F21661-16MSD	QR020566.D	5000	01/27/04	RA	n/a	n/a	GQR870
F21661-16	QR020558.D	5000	01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-5, F21661-6, F21661-7, F21661-11, F21661-14, F21661-16, F21661-17, F21661-19

CAS No.	Compound	F21661-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		100000	97800	98	99200	99	1	77-125/6
75-27-4	Bromodichloromethane	ND		100000	97400	97	99000	99	2	77-111/9
75-25-2	Bromoform	ND		100000	91700	92	96200	96	5	69-117/9
74-83-9	Bromomethane	ND		100000	109000	109	108000	108	1	60-134/14
56-23-5	Carbon tetrachloride	ND		100000	100000	100	102000	102	2	83-133/8
108-90-7	Chlorobenzene	ND		100000	100000	100	103000	103	3	78-120/8
124-48-1	Dibromochloromethane	ND		100000	91100	91	94000	94	3	70-117/9
75-00-3	Chloroethane	ND		100000	111000	111	104000	104	7	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		100000	ND	0*	ND	0*	nc	20-122/32
67-66-3	Chloroform	ND		100000	95800	96	100000	100	4	80-116/7
74-87-3	Chloromethane	ND		100000	147000	147	147000	147	0	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		100000	97800	98	98800	99	1	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		100000	102000	102	100000	100	2	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		100000	99700	100	97400	97	2	67-129/7
75-71-8	Dichlorodifluoromethane	ND		100000	140000	140	147000	147	5	19-163/14
75-34-3	1,1-Dichloroethane	ND		100000	97200	97	100000	100	3	90-129/8
107-06-2	1,2-Dichloroethane	ND		100000	98800	99	100000	100	1	87-117/7
75-35-4	1,1-Dichloroethene	ND		100000	112000	112	110000	110	2	81-139/19
156-59-2	cis-1,2-Dichloroethene	52500		100000	153000	101	154000	102	1	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND		100000	108000	108	108000	108	0	88-133/9
78-87-5	1,2-Dichloropropane	ND		100000	99400	99	101000	101	2	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		100000	98700	99	97800	98	1	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		100000	89800	90	90400	90	1	74-125/11
100-41-4	Ethylbenzene	ND		100000	100000	100	101000	101	1	74-127/6
75-09-2	Methylene chloride	157000		100000	262000	105	260000	103	1	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND		100000	92400	92	92200	92	0	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		100000	95100	95	95800	96	1	80-126/10
127-18-4	Tetrachloroethene	ND		100000	103000	103	105000	105	2	91-125/8
108-88-3	Toluene	18700		100000	117000	98	117000	98	0	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		100000	102000	102	101000	101	1	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		100000	96100	96	101000	101	5	85-119/9
79-01-6	Trichloroethene	20100		100000	126000	106	125000	105	1	88-124/8
75-69-4	Trichlorofluoromethane	ND		100000	111000	111	112000	112	1	68-135/15
75-01-4	Vinyl chloride	4120	J	100000	127000	123	126000	122	1	43-150/22
95-47-6	o-Xylene	ND		100000	95800	96	95900	96	0	77-122/5
	m,p-Xylene	ND		200000	195000	98	196000	98	1	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21661

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21661-16MS	QR020565.D	5000	01/27/04	RA	n/a	n/a	GQR870
F21661-16MSD	QR020566.D	5000	01/27/04	RA	n/a	n/a	GQR870
F21661-16	QR020558.D	5000	01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21661-5, F21661-6, F21661-7, F21661-11, F21661-14, F21661-16, F21661-17, F21661-19

CAS No.	Surrogate Recoveries	MS	MSD	F21661-16	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	103%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	101%	103%	94%	70-123%
563-58-6	1,1-Dichloropropene	100%	100%	100%	86-112%
563-58-6	1,1-Dichloropropene	97%	97%	100%	86-112%



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F21661
Account: STOLCOGJ - S M Stoller
Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 01/27/04

Metal	RL	IDL	MB raw	final
Al uminium	200	6. 6		
Antimony	5. 0	1. 5	anr	
Arsenic	10	2. 8	0. 46	<10
Barium	200	. 5	anr	
Beryllium	5. 0	. 3	anr	
Cadmium	5. 0	. 3	anr	
Calcium	1000	3. 8	anr	
Chromium	10	. 4	anr	
Cobalt	50	. 5		
Copper	25	. 44	anr	
Iron	300	7. 1	anr	
Lead	5. 0	1. 2	anr	
Magnesium	5000	9. 9		
Manganese	15	. 16	anr	
Molybdenum	50	. 75		
Nickel	40	1. 1	anr	
Potassium	5000	14		
Selenium	10	2	anr	
Silver	10	. 6	anr	
Sodium	5000	150		
Thallium	10	1. 5		
Tin	50	1. 5		
Vanadium	50	. 47	anr	
Zinc	20	. 59		

Associated samples MP6265: F21661-20, F21661-21, F21661-22

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21661
 Account: STOLCOGJ - S M Stoller
 Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

01/27/04

01/27/04

Metal	F21774-1 Original	DUP	RPD	QC Li mits	F21774-1 Original	MS	Spi kel ot MPFLICP	% Rec	QC Li mits
Al umi num									
Antimony	anr								
Arsenic	0. 0	2. 8	200. 0(a)	0-12	0. 0	4230	4000	105. 8	83-116
Bari um	anr								
Berylli um	anr								
Cadmi um	anr								
Cal ci um	anr								
Chromi um	anr								
Cobal t									
Copper	anr								
I ron	anr								
Lead	anr								
Magnesi um									
Manganese	anr								
Mol ybdenum									
Ni ckel	anr								
Potassi um									
Sel eni um	anr								
Si lver	anr								
Sodi um									
Thall i um									
Tin									
Vanadi um	anr								
Zinc									

Associated samples MP6265: F21661-20, F21661-21, F21661-22

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

6.1.2
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21661
 Account: STOLCOGJ - S M Stoller
 Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/27/04

Metal	F21774-1 Original	MSD	Spike lot MPFLICP	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	0.0	4170	4000	104.3	1.4	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Thallium						
Tin						
Vanadium	anr					
Zinc						

Associated samples MP6265: F21661-20, F21661-21, F21661-22

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

6.1.2
6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F21661
 Account: STOLCOGJ - S M Stoller
 Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/27/04

Metal	BSP Result	Spike lot MPFLICP	% Rec	QC Limits
Al umium				
Antimony	anr			
Arsenic	4070	4000	101.8	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Thallium				
Tin				
Vanadium	anr			
Zinc				

Associated samples MP6265: F21661-20, F21661-21, F21661-22

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: F21661
 Account: STOLCOGJ - S M Stoller
 Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/27/04

Metal	F21774-1 Original	SDL 1:5	RPD	QC Limits
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Al umi num

Antimony anr

Arsenic 0.00 0.00 NC 0-10

Bari um anr

Beryllium anr

Cadmi um anr

Cal ci um anr

Chromi um anr

Cobal t

Copper anr

Iron anr

Lead anr

Magnesi um

Manganese anr

Mol ybdenum

Nickel anr

Potassi um

Seleni um anr

Silver anr

Sodi um

Thall i um

Tin

Vanadi um anr

Zinc

Associated samples MP6265: F21661-20, F21661-21, F21661-22

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.4
6



03/31/04

Technical Report for

S M Stoller

Quarterly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F21662

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **67**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	5
Section 3: Sample Results	6
3.1: F21662-1: PIN15-0582	6
3.2: F21662-2: PIN12-S73B	8
3.3: F21662-3: PIN12-S73C	10
3.4: F21662-4: PIN12-S73D	12
3.5: F21662-5: PIN12-0526	14
3.6: F21662-6: PIN12-0513	16
3.7: F21662-7: PIN12-0514	18
3.8: F21662-8: PIN12-0580	20
3.9: F21662-9: PIN15-0568	22
3.10: F21662-10: PIN15-0586	24
3.11: F21662-11: PIN15-0569	26
3.12: F21662-12: PIN18-0500	28
3.13: F21662-13: PIN18-RW02	29
3.14: F21662-14: PIN18-RW0501	31
3.15: F21662-15: PIN18-0502	33
3.16: F21662-16: PIN18-RW03	34
3.17: F21662-17: PIN18-0521	36
3.18: F21662-18: PIN18-0522	37
3.19: F21662-19: PIN18-0650	38
Section 4: Misc. Forms	39
4.1: Chain of Custody	40
Section 5: GC Volatiles - QC Data Summaries	43
5.1: Method Blank Summary	44
5.2: Blank Spike Summary	50
5.3: Matrix Spike/Matrix Spike Duplicate Summary	56
Section 6: Metals Analysis - QC Data Summaries	62
6.1: Prep QC MP6265: As	63

Sample Summary

S M Stoller

Job No: F21662

Quarterly Sampling, STAR Center, Largo, FL
 Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21662-1	01/15/04	09:10 SC	01/16/04	AQ	Ground Water	PIN15-0582
F21662-2	01/15/04	10:00 SC	01/16/04	AQ	Ground Water	PIN12-S73B
F21662-3	01/15/04	10:45 SC	01/16/04	AQ	Ground Water	PIN12-S73C
F21662-4	01/15/04	11:40 SC	01/16/04	AQ	Ground Water	PIN12-S73D
F21662-5	01/15/04	13:25 SC	01/16/04	AQ	Ground Water	PIN12-0526
F21662-6	01/15/04	13:55 SC	01/16/04	AQ	Ground Water	PIN12-0513
F21662-7	01/15/04	14:25 SC	01/16/04	AQ	Ground Water	PIN12-0514
F21662-8	01/15/04	14:40 SC	01/16/04	AQ	Ground Water	PIN12-0580
F21662-9	01/15/04	15:35 SC	01/16/04	AQ	Ground Water	PIN15-0568
F21662-10	01/15/04	16:15 SC	01/16/04	AQ	Ground Water	PIN15-0586
F21662-11	01/16/04	08:10 SC	01/16/04	AQ	Ground Water	PIN15-0569
F21662-12	01/16/04	08:40 SC	01/16/04	AQ	Ground Water	PIN18-0500
F21662-13	01/16/04	08:50 SC	01/16/04	AQ	Ground Water	PIN18-RW02



Sample Summary

(continued)

S M Stoller

Job No: F21662

Quarterly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21662-14	01/16/04	09:10 SC	01/16/04	AQ	Ground Water	PIN18-RW0501
F21662-15	01/16/04	09:25 SC	01/16/04	AQ	Ground Water	PIN18-0502
F21662-16	01/16/04	09:40 SC	01/16/04	AQ	Ground Water	PIN18-RW03
F21662-17	01/16/04	10:10 SC	01/16/04	AQ	Ground Water	PIN18-0521
F21662-18	01/16/04	10:40 SC	01/16/04	AQ	Ground Water	PIN18-0522
F21662-19	01/16/04	10:50 SC	01/16/04	AQ	Ground Water	PIN18-0650

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Quarterly Sampling, STAR Center, Largo FL
Job No.: F21662
Report Date: February 03, 2004

19 samples were collected on January 15 and 16, 2004 and received on January 16, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs, SW846 8021B:

- Samples PIN12-S73B (F21662-2), PIN12-S73C (F21662-3), PIN12-S73D (F21662-4), PIN12-0526 (F21662-5), PIN12-0513 (F21662-6), PIN12-0514 (F21662-7), PIN12-0580 (F21662-8), PIN15-0568 (F21662-9) required a 5X dilution due to foaming. Data has been footnoted accordingly.
- Samples PIN15-0569 (F21662-11) required a 2X dilution due to matrix interference. Data has been footnoted accordingly.
- The Blank Spike associated with analytical batch GQR872 had one recovery above acceptance limits. This compound was non-detect in all associated samples. Data not adversely affected.
- The MS/MSD associated with analytical batch GQR872 had various recoveries and RPDs below and/or above acceptance limits. The Blank Spike was within limits, except where noted above. Data not adversely affected.

Metals, SW846 6010B:

- The Duplicate associated with batch MP6265 had one RPD above acceptance limits. The Blank Spike was within limits. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: February 03, 2004

Report of Analysis

Page 1 of 2

3-1
3

Client Sample ID: PIN15-0582
Lab Sample ID: F21662-1
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

Date Sampled: 01/15/04
Date Received: 01/16/04
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020593.D	1	01/28/04	RA	n/a	n/a	GQR872
Run #2							

Purge Volume
Run #1 5.0 ml
Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3-1

3

Client Sample ID: PIN15-0582**Lab Sample ID:** F21662-1**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	97%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	106%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

32
3

Client Sample ID:	PIN12-S73B	Date Sampled:	01/15/04
Lab Sample ID:	F21662-2	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020569.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	8.0	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32
3

Client Sample ID:	PIN12-S73B	Date Sampled:	01/15/04
Lab Sample ID:	F21662-2	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	101%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	106%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

33
3**Client Sample ID:** PIN12-S73C**Lab Sample ID:** F21662-3**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020570.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	20.7	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	9.6	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

33
3**Client Sample ID:** PIN12-S73C**Lab Sample ID:** F21662-3**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	10.7	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	103%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

34
3**Client Sample ID:** PIN12-S73D**Lab Sample ID:** F21662-4**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020571.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

34
3

Client Sample ID:	PIN12-S73D	Date Sampled:	01/15/04
Lab Sample ID:	F21662-4	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	96%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	107%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

35
3**Client Sample ID:** PIN12-0526**Lab Sample ID:** F21662-5**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020572.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	12.9	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	3.7	5.0	2.5	ug/l	J
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

35
3**Client Sample ID:** PIN12-0526**Lab Sample ID:** F21662-5**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	91%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	106%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID: PIN12-0513
Lab Sample ID: F21662-6
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

Date Sampled: 01/15/04**Date Received:** 01/16/04**Percent Solids:** n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020573.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml
 Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	6.1	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	7.7	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	7.4	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3.6
3**Client Sample ID:** PIN12-0513**Lab Sample ID:** F21662-6**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	96%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	105%		86-112%

(a) Dilution required due to matrix interference (sample foamed). All hits confirmed by GC/MS.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

37
3

Client Sample ID: PIN12-0514
Lab Sample ID: F21662-7
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020575.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume
Run #1 5.0 ml
Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	11.4	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	13.9	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	32.9	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

37
3

Client Sample ID:	PIN12-0514	Date Sampled:	01/15/04
Lab Sample ID:	F21662-7	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	37.7	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	94%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	105%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

38

3

Client Sample ID: PIN12-0580**Lab Sample ID:** F21662-8**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020574.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	11.3	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	14.3	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	35.0	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

38
3

Client Sample ID:	PIN12-0580	Date Sampled:	01/15/04
Lab Sample ID:	F21662-8	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	40.5	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	102%		86-112%

(a) Dilution required due to matrix interference (sample foamed). All hits confirmed by GC/MS.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

39
3**Client Sample ID:** PIN15-0568**Lab Sample ID:** F21662-9**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020576.D	5	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

39
3**Client Sample ID:** PIN15-0568**Lab Sample ID:** F21662-9**Date Sampled:** 01/15/04**Matrix:** AQ - Ground Water**Date Received:** 01/16/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Quarterly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	108%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-0586	Date Sampled:	01/15/04
Lab Sample ID:	F21662-10	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020546.D	1	01/27/04	RA	n/a	n/a	GQR869
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-0586	Date Sampled:	01/15/04
Lab Sample ID:	F21662-10	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	91%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	105%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	PIN15-0569	Date Sampled:	01/16/04
Lab Sample ID:	F21662-11	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020579.D	2	01/27/04	RA	n/a	n/a	GQR870
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	3.4	2.0	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	1.0	ug/l	
75-25-2	Bromoform	ND	2.0	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.80	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	ND	2.0	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.60	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.60	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^a	ND	5.0	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	2.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	1.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN15-0569	Date Sampled:	01/16/04
Lab Sample ID:	F21662-11	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	44.9	2.0	1.0	ug/l	
95-47-6	o-Xylene	ND	2.0	1.0	ug/l	
	m,p-Xylene	ND	4.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	97%		70-123%
563-58-6	1,1-Dichloropropene	99%		86-112%
563-58-6	1,1-Dichloropropene	105%		86-112%

(a) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-0500	Date Sampled:	01/16/04
Lab Sample ID:	F21662-12	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	76.4	10	3.5	ug/l	1	01/27/04	01/28/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3654

(2) Prep QC Batch: MP6265

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 2

Client Sample ID: PIN18-RW02
Lab Sample ID: F21662-13
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020541.D	1	01/27/04	RA	n/a	n/a	GQR869
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.7	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN18-RW02	Date Sampled:	01/16/04
Lab Sample ID:	F21662-13	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	104%		86-112%

(a) All hits confirmed by GC/MS.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID: PIN18-RW0501
Lab Sample ID: F21662-14
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020545.D	1	01/27/04	RA	n/a	n/a	GQR869
Run #2							

Purge Volume
Run #1 5.0 ml
Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN18-RW0501	Date Sampled:	01/16/04
Lab Sample ID:	F21662-14	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	110%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-0502	Date Sampled:	01/16/04
Lab Sample ID:	F21662-15	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	30.4	10	3.5	ug/l	1	01/27/04	01/28/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3654

(2) Prep QC Batch: MP6265

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 2

Client Sample ID: PIN18-RW03
Lab Sample ID: F21662-16
Matrix: AQ - Ground Water
Method: SW846 8021B
Project: Quarterly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020542.D	1	01/27/04	RA	n/a	n/a	GQR869
Run #2							

Purge Volume
Run #1 5.0 ml
Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	PIN18-RW03	Date Sampled:	01/16/04
Lab Sample ID:	F21662-16	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Quarterly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	110%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-0521	Date Sampled:	01/16/04
Lab Sample ID:	F21662-17	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	01/27/04	01/28/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3654

(2) Prep QC Batch: MP6265

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-0522	Date Sampled:	01/16/04
Lab Sample ID:	F21662-18	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	26.9	10	3.5	ug/l	1	01/27/04	01/28/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3654

(2) Prep QC Batch: MP6265

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-0650	Date Sampled:	01/16/04
Lab Sample ID:	F21662-19	Date Received:	01/16/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Quarterly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	42.3	10	3.5	ug/l	1	01/27/04	01/28/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3654

(2) Prep QC Batch: MP6265

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE

F21662

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES		
NAME: S. M Stoller ADDRESS: 2597 B 3/4 Road CITY: Grand Junction CO ZIP: 81503 SEND REPORT TO: Keith Miller PHONE #: 970 248-6598			PROJECT NAME: STAR Center LOCATION: Largo, FL PROJECT NO.: 110406202 FAX #: 727 549 1121						DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID		
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION		COLLECTION		MATRIX: GW 6 OF BOTTLES: HCl NH ₄ NO ₃ H ₂ SO ₄ None V005	PRESERVATION			LAB USE ONLY		
	DATE	TIME	SAMPLED BY:								
	1	PIN15-0582	1/16/04	0910		SC	GW	3 X	X		
	2	PIN12-S73B		1000				3 X		X	
	3	PIN12-S73C		1045				3 X		X	
	4	PIN12-S73D		1140				3 X		X	
	5	PIN12-0526		1325				3 X		X	
	6	PIN12-0513		1355				3 X		X	
	7	PIN12-0514		1425				3 X		X	
	8	PIN12-0580		1440				3 X		X	
	9	PIN15-0568		1535				3 X		X	
	10	PIN15-0586	V	1615				3 X		X	
11	PIN15-0569	1/16/04	0810	V	V	3 X		X			
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS					
<input type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____		<input type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____									
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
RELINQUISHED BY-SAMPLER:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:						
1. S. M Stoller	1/16/04 12:00	1. M. Stoller 1/16/04 12:50	2. M. Stoller 1/16/04 14:00	14:00	2. M. Stoller 1/16/04 14:00						
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE TIME:	RECEIVED BY:						
3.		3.	4.		4.						
RELINQUISHED BY:	DATE TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE		ON ICE	TEMPERATURE				
5.		5.		<input type="checkbox"/>		<input type="checkbox"/>	3.0	2.8	C		

F21662: Chain of Custody

Page 1 of 3



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

F21662

CLIENT INFORMATION		FACILITY INFORMATION		ANALYTICAL INFORMATION		MATRIX CODES			
NAME: S. M. Stoller ADDRESS: 2597 B 3/4 Rd CITY: Grand Junction CO ZIP: 81503 BEND REPORT TO: Keith Miller PHONE #: 970 248-6598		PROJECT NAME: STAR Center LOCATION: Largo, FL PROJECT NO.: 110406202 On site contact: Barry Rice				DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID			
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		MATRIX	# OF BOTTLES	PRESERVATION	LAB USE ONLY		
		DATE	TIME					SAMPLED BY:	HCl
12	PIN18-0500	1/16/04	0840	JC	GW	1	X	X	
13	PIN18-RW02		0850			3	X	X	
14	PIN18-RW0501		0910			3	X	X	
15	PIN18-0502		0925			1	X	X	
16	PIN18-RW03		0940			3	X	X	
17	PIN18-0521		1010			1	X	X	
18	PIN18-0522		1040			1	X	X	
19	PIN18-0650		1050	V		1	X	X	
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		COMMENTS/REMARKS					
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____							
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY									
RELINQUISHED BY: 1. <i>La La La</i>	DATE TIME: 12:30	RECEIVED BY: 1. <i>LL-Kit-Wayne 050</i>	RELINQUISHED BY: 2. <i>N.V. Vak 1/16/04</i>	DATE TIME: 19:00	RECEIVED BY: 2. <i>Munam Mohammed</i>				
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY:	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.				
RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE		ON ICE	TEMPERATURE		
				<input type="checkbox"/>		<input type="checkbox"/>	C		

F21662: Chain of Custody

Page 2 of 3

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F21662

Accutest's Job Number:

Client: SM StollerProject: Star CenterDate Received: 1/16/04Time Received: 1900# of Coolers Received: 2 Cooler Temperatures: 30, 2.8Delivery Method: FedEx UPS **Accutest Courier** Greyhound Delivery Other

Air Bill Number:

Cooler Custody Seals Intact ?

 Yes No

Chain of Custody Provided ?

 Yes No

COC Match Bottle Label ID's ?

 Yes No

Sample Labels Present on all bottles ?

 Yes No

All Analyses Marked On COC ?

 Yes No

Are All Bottles Intact ?

 Yes No

Samples Preserved Correctly ?

 Yes No

Correct Number of Containers Used ?

 Yes No

Sufficient Sample Volume ?

 Yes No

Trip Blank Provided ?

 Yes No

Trip Blank on COC ?

 Yes No

Trip Blank Intact ?

 Yes No N/A

Trip Blank Matrix ?

 Soil Water N/A

Number of Encores ?

Number of Soil Field Kits ?

Summary of Comments:

Signature: Muna Mohammed Date: 1/16/04Review Signature: R. D. D.

ASBD 12/30/03

F21662: Chain of Custody**Page 3 of 3**

GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR869-MB	QR020524.D 1		01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-10, F21662-13, F21662-14, F21662-16

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR869-MB	QR020524.D 1		01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-10, F21662-13, F21662-14, F21662-16

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%	70-123%
563-58-6	1,1-Dichloropropene	101%	86-112%
563-58-6	1,1-Dichloropropene	108%	86-112%

Method Blank Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR870-MB	QR020555.D 1		01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-2, F21662-3, F21662-4, F21662-5, F21662-6, F21662-7, F21662-8, F21662-9, F21662-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR870-MB	QR020555.D 1		01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-2, F21662-3, F21662-4, F21662-5, F21662-6, F21662-7, F21662-8, F21662-9, F21662-11

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	108%	86-112%

Method Blank Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR872-MB	QR020592.D 1		01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR872-MB	QR020592.D	1	01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-1

CAS No.	Surrogate Recoveries	Limits
352-33-0	1-Chloro-4-fluorobenzene	91% 70-123%
352-33-0	1-Chloro-4-fluorobenzene	99% 70-123%
563-58-6	1,1-Dichloropropene	99% 86-112%
563-58-6	1,1-Dichloropropene	108% 86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR869-BS	QR020523.D 1		01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-10, F21662-13, F21662-14, F21662-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.6	103	86-121
75-27-4	Bromodichloromethane	20	18.6	93	82-107
75-25-2	Bromoform	20	18.4	92	74-111
74-83-9	Bromomethane	20	21.3	107	64-132
56-23-5	Carbon tetrachloride	20	19.8	99	92-129
108-90-7	Chlorobenzene	20	19.4	97	81-119
124-48-1	Dibromochloromethane	20	17.8	89	77-109
75-00-3	Chloroethane	20	20.2	101	83-125
110-75-8	2-Chloroethylvinyl ether	20	18.5	93	45-150
67-66-3	Chloroform	20	19.1	96	85-111
74-87-3	Chloromethane	20	24.0	120	65-141
95-50-1	1,2-Dichlorobenzene	20	18.8	94	75-120
541-73-1	1,3-Dichlorobenzene	20	19.1	96	77-121
106-46-7	1,4-Dichlorobenzene	20	18.9	95	75-122
75-71-8	Dichlorodifluoromethane	20	27.3	137	51-152
75-34-3	1,1-Dichloroethane	20	18.9	95	94-126
107-06-2	1,2-Dichloroethane	20	19.4	97	88-116
75-35-4	1,1-Dichloroethene	20	22.0	110	83-134
156-59-2	cis-1,2-Dichloroethene	20	20.6	103	83-115
156-60-5	trans-1,2-Dichloroethene	20	20.0	100	94-129
78-87-5	1,2-Dichloropropane	20	18.8	94	90-118
10061-01-5	cis-1,3-Dichloropropene	20	19.2	96	96-125
10061-02-6	trans-1,3-Dichloropropene	20	17.9	90	85-120
100-41-4	Ethylbenzene	20	21.1	106	81-126
75-09-2	Methylene chloride	20	19.1	96	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.1	96	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	18.5	93	82-119
127-18-4	Tetrachloroethene	20	20.0	100	94-125
108-88-3	Toluene	20	20.6	103	82-123
71-55-6	1,1,1-Trichloroethane	20	19.0	95	89-127
79-00-5	1,1,2-Trichloroethane	20	18.9	95	86-117
79-01-6	Trichloroethene	20	20.2	101	92-124
75-69-4	Trichlorofluoromethane	20	21.6	108	77-139
75-01-4	Vinyl chloride	20	22.8	114	59-146
95-47-6	o-Xylene	20	20.3	102	81-123
	m,p-Xylene	40	41.4	104	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR869-BS	QR020523.D 1		01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-10, F21662-13, F21662-14, F21662-16

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	104%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%	70-123%
563-58-6	1,1-Dichloropropene	101%	86-112%
563-58-6	1,1-Dichloropropene	95%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR870-BS	QR020554.D 1		01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-2, F21662-3, F21662-4, F21662-5, F21662-6, F21662-7, F21662-8, F21662-9, F21662-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.1	101	86-121
75-27-4	Bromodichloromethane	20	19.7	99	82-107
75-25-2	Bromoform	20	18.1	91	74-111
74-83-9	Bromomethane	20	21.8	109	64-132
56-23-5	Carbon tetrachloride	20	21.1	106	92-129
108-90-7	Chlorobenzene	20	20.6	103	81-119
124-48-1	Dibromochloromethane	20	17.9	90	77-109
75-00-3	Chloroethane	20	21.3	107	83-125
110-75-8	2-Chloroethylvinyl ether	20	25.9	130	45-150
67-66-3	Chloroform	20	19.3	97	85-111
74-87-3	Chloromethane	20	26.2	131	65-141
95-50-1	1,2-Dichlorobenzene	20	19.9	100	75-120
541-73-1	1,3-Dichlorobenzene	20	20.1	101	77-121
106-46-7	1,4-Dichlorobenzene	20	20.0	100	75-122
75-71-8	Dichlorodifluoromethane	20	27.0	135	51-152
75-34-3	1,1-Dichloroethane	20	20.1	101	94-126
107-06-2	1,2-Dichloroethane	20	19.7	99	88-116
75-35-4	1,1-Dichloroethene	20	22.8	114	83-134
156-59-2	cis-1,2-Dichloroethene	20	21.3	107	83-115
156-60-5	trans-1,2-Dichloroethene	20	21.1	106	94-129
78-87-5	1,2-Dichloropropane	20	20.2	101	90-118
10061-01-5	cis-1,3-Dichloropropene	20	20.2	101	96-125
10061-02-6	trans-1,3-Dichloropropene	20	18.3	92	85-120
100-41-4	Ethylbenzene	20	20.5	103	81-126
75-09-2	Methylene chloride	20	18.8	94	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.1	96	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	18.7	94	82-119
127-18-4	Tetrachloroethene	20	20.6	103	94-125
108-88-3	Toluene	20	20.0	100	82-123
71-55-6	1,1,1-Trichloroethane	20	20.0	100	89-127
79-00-5	1,1,2-Trichloroethane	20	18.9	95	86-117
79-01-6	Trichloroethene	20	21.1	106	92-124
75-69-4	Trichlorofluoromethane	20	21.7	109	77-139
75-01-4	Vinyl chloride	20	23.0	115	59-146
95-47-6	o-Xylene	20	19.6	98	81-123
	m,p-Xylene	40	40.1	100	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR870-BS	QR020554.D 1		01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-2, F21662-3, F21662-4, F21662-5, F21662-6, F21662-7, F21662-8, F21662-9, F21662-11

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	99%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR872-BS	QR020591.D 1		01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.4	102	86-121
75-27-4	Bromodichloromethane	20	20.0	100	82-107
75-25-2	Bromoform	20	18.5	93	74-111
74-83-9	Bromomethane	20	22.3	112	64-132
56-23-5	Carbon tetrachloride	20	20.6	103	92-129
108-90-7	Chlorobenzene	20	20.7	104	81-119
124-48-1	Dibromochloromethane	20	18.4	92	77-109
75-00-3	Chloroethane	20	21.4	107	83-125
110-75-8	2-Chloroethylvinyl ether	20	17.0	85	45-150
67-66-3	Chloroform	20	19.9	100	85-111
74-87-3	Chloromethane	20	29.4	147*	65-141
95-50-1	1,2-Dichlorobenzene	20	20.2	101	75-120
541-73-1	1,3-Dichlorobenzene	20	20.4	102	77-121
106-46-7	1,4-Dichlorobenzene	20	20.2	101	75-122
75-71-8	Dichlorodifluoromethane	20	29.6	148	51-152
75-34-3	1,1-Dichloroethane	20	19.9	100	94-126
107-06-2	1,2-Dichloroethane	20	19.9	100	88-116
75-35-4	1,1-Dichloroethene	20	22.4	112	83-134
156-59-2	cis-1,2-Dichloroethene	20	21.9	110	83-115
156-60-5	trans-1,2-Dichloroethene	20	19.7	99	94-129
78-87-5	1,2-Dichloropropane	20	20.4	102	90-118
10061-01-5	cis-1,3-Dichloropropene	20	20.5	103	96-125
10061-02-6	trans-1,3-Dichloropropene	20	18.8	94	85-120
100-41-4	Ethylbenzene	20	21.0	105	81-126
75-09-2	Methylene chloride	20	19.3	97	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.0	95	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	19.5	98	82-119
127-18-4	Tetrachloroethene	20	20.9	105	94-125
108-88-3	Toluene	20	20.5	103	82-123
71-55-6	1,1,1-Trichloroethane	20	20.1	101	89-127
79-00-5	1,1,2-Trichloroethane	20	19.5	98	86-117
79-01-6	Trichloroethene	20	21.4	107	92-124
75-69-4	Trichlorofluoromethane	20	20.9	105	77-139
75-01-4	Vinyl chloride	20	24.1	121	59-146
95-47-6	o-Xylene	20	20.1	101	81-123
	m,p-Xylene	40	41.1	103	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR872-BS	QR020591.D 1		01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-1

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	97%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21661-9MS	QR020527.D	1000	01/26/04	RA	n/a	n/a	GQR869
F21661-9MSD	QR020528.D	1000	01/26/04	RA	n/a	n/a	GQR869
F21661-9	QR020526.D	1000	01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-10, F21662-13, F21662-14, F21662-16

CAS No.	Compound	F21661-9 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20000	19400	97	19200	96	1	77-125/6
75-27-4	Bromodichloromethane	ND		20000	19400	97	19100	96	2	77-111/9
75-25-2	Bromoform	ND		20000	18800	94	18600	93	1	69-117/9
74-83-9	Bromomethane	ND		20000	22400	112	21900	110	2	60-134/14
56-23-5	Carbon tetrachloride	ND		20000	19700	99	19900	100	1	83-133/8
108-90-7	Chlorobenzene	ND		20000	20000	100	19900	100	1	78-120/8
124-48-1	Dibromochloromethane	ND		20000	18300	92	18600	93	2	70-117/9
75-00-3	Chloroethane	ND		20000	20300	102	21000	105	3	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		20000	ND	0*	ND	0*	nc	20-122/32
67-66-3	Chloroform	ND		20000	19300	97	19000	95	2	80-116/7
74-87-3	Chloromethane	ND		20000	25100	126	23900	120	5	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		20000	19500	98	19300	97	1	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		20000	19900	100	19200	96	4	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		20000	19900	100	19400	97	3	67-129/7
75-71-8	Dichlorodifluoromethane	ND		20000	28000	140	28300	142	1	19-163/14
75-34-3	1,1-Dichloroethane	ND		20000	19700	99	19400	97	2	90-129/8
107-06-2	1,2-Dichloroethane	ND		20000	19100	96	19400	97	2	87-117/7
75-35-4	1,1-Dichloroethene	ND		20000	21800	109	21900	110	0	81-139/19
156-59-2	cis-1,2-Dichloroethene	ND		20000	21400	107	21100	106	1	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND		20000	20200	101	20300	102	0	88-133/9
78-87-5	1,2-Dichloropropane	ND		20000	19600	98	20100	101	3	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		20000	19500	98	19200	96	2	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		20000	18100	91	18100	91	0	74-125/11
100-41-4	Ethylbenzene	ND		20000	19800	99	19400	97	2	74-127/6
75-09-2	Methylene chloride	ND		20000	19000	95	19700	99	4	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND		20000	18300	92	18300	92	0	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		20000	18600	93	18600	93	0	80-126/10
127-18-4	Tetrachloroethene	ND		20000	20700	104	20800	104	0	91-125/8
108-88-3	Toluene	ND		20000	19600	98	19400	97	1	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		20000	19700	99	20000	100	2	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		20000	19500	98	18800	94	4	85-119/9
79-01-6	Trichloroethene	ND		20000	20500	103	20200	101	1	88-124/8
75-69-4	Trichlorofluoromethane	ND		20000	22000	110	22400	112	2	68-135/15
75-01-4	Vinyl chloride	12300		20000	35700	117	35800	118	0	43-150/22
95-47-6	o-Xylene	ND		20000	18900	95	18800	94	1	77-122/5
	m,p-Xylene	ND		40000	38700	97	38000	95	2	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21661-9MS	QR020527.D	1000	01/26/04	RA	n/a	n/a	GQR869
F21661-9MSD	QR020528.D	1000	01/26/04	RA	n/a	n/a	GQR869
F21661-9	QR020526.D	1000	01/26/04	RA	n/a	n/a	GQR869

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-10, F21662-13, F21662-14, F21662-16

CAS No.	Surrogate Recoveries	MS	MSD	F21661-9	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	103%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	101%	95%	70-123%
563-58-6	1,1-Dichloropropene	101%	101%	101%	86-112%
563-58-6	1,1-Dichloropropene	97%	97%	107%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21661-16MS	QR020565.D	5000	01/27/04	RA	n/a	n/a	GQR870
F21661-16MSD	QR020566.D	5000	01/27/04	RA	n/a	n/a	GQR870
F21661-16	QR020558.D	5000	01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-2, F21662-3, F21662-4, F21662-5, F21662-6, F21662-7, F21662-8, F21662-9, F21662-11

CAS No.	Compound	F21661-16 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		100000	97800	98	99200	99	1	77-125/6
75-27-4	Bromodichloromethane	ND		100000	97400	97	99000	99	2	77-111/9
75-25-2	Bromoform	ND		100000	91700	92	96200	96	5	69-117/9
74-83-9	Bromomethane	ND		100000	109000	109	108000	108	1	60-134/14
56-23-5	Carbon tetrachloride	ND		100000	100000	100	102000	102	2	83-133/8
108-90-7	Chlorobenzene	ND		100000	100000	100	103000	103	3	78-120/8
124-48-1	Dibromochloromethane	ND		100000	91100	91	94000	94	3	70-117/9
75-00-3	Chloroethane	ND		100000	111000	111	104000	104	7	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		100000	ND	0*	ND	0*	nc	20-122/32
67-66-3	Chloroform	ND		100000	95800	96	100000	100	4	80-116/7
74-87-3	Chloromethane	ND		100000	147000	147	147000	147	0	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		100000	97800	98	98800	99	1	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		100000	102000	102	100000	100	2	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		100000	99700	100	97400	97	2	67-129/7
75-71-8	Dichlorodifluoromethane	ND		100000	140000	140	147000	147	5	19-163/14
75-34-3	1,1-Dichloroethane	ND		100000	97200	97	100000	100	3	90-129/8
107-06-2	1,2-Dichloroethane	ND		100000	98800	99	100000	100	1	87-117/7
75-35-4	1,1-Dichloroethene	ND		100000	112000	112	110000	110	2	81-139/19
156-59-2	cis-1,2-Dichloroethene	52500		100000	153000	101	154000	102	1	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND		100000	108000	108	108000	108	0	88-133/9
78-87-5	1,2-Dichloropropane	ND		100000	99400	99	101000	101	2	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		100000	98700	99	97800	98	1	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		100000	89800	90	90400	90	1	74-125/11
100-41-4	Ethylbenzene	ND		100000	100000	100	101000	101	1	74-127/6
75-09-2	Methylene chloride	157000		100000	262000	105	260000	103	1	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND		100000	92400	92	92200	92	0	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		100000	95100	95	95800	96	1	80-126/10
127-18-4	Tetrachloroethene	ND		100000	103000	103	105000	105	2	91-125/8
108-88-3	Toluene	18700		100000	117000	98	117000	98	0	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		100000	102000	102	101000	101	1	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		100000	96100	96	101000	101	5	85-119/9
79-01-6	Trichloroethene	20100		100000	126000	106	125000	105	1	88-124/8
75-69-4	Trichlorofluoromethane	ND		100000	111000	111	112000	112	1	68-135/15
75-01-4	Vinyl chloride	4120	J	100000	127000	123	126000	122	1	43-150/22
95-47-6	o-Xylene	ND		100000	95800	96	95900	96	0	77-122/5
	m,p-Xylene	ND		200000	195000	98	196000	98	1	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21661-16MS	QR020565.D	5000	01/27/04	RA	n/a	n/a	GQR870
F21661-16MSD	QR020566.D	5000	01/27/04	RA	n/a	n/a	GQR870
F21661-16	QR020558.D	5000	01/27/04	RA	n/a	n/a	GQR870

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-2, F21662-3, F21662-4, F21662-5, F21662-6, F21662-7, F21662-8, F21662-9, F21662-11

CAS No.	Surrogate Recoveries	MS	MSD	F21661-16	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	103%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	101%	103%	94%	70-123%
563-58-6	1,1-Dichloropropene	100%	100%	100%	86-112%
563-58-6	1,1-Dichloropropene	97%	97%	100%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21742-1MS	QR020597.D	250	01/28/04	RA	n/a	n/a	GQR872
F21742-1MSD	QR020598.D	250	01/28/04	RA	n/a	n/a	GQR872
F21742-1	QR020595.D	100	01/28/04	RA	n/a	n/a	GQR872
F21742-1	QR020596.D	250	01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-1

CAS No.	Compound	F21742-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		5000	4890	98	4930	99	1	77-125/6
75-27-4	Bromodichloromethane	ND		5000	4890	98	4800	96	2	77-111/9
75-25-2	Bromoform	ND		5000	4630	93	4530	91	2	69-117/9
74-83-9	Bromomethane	ND		5000	5530	111	5410	108	2	60-134/14
56-23-5	Carbon tetrachloride	ND		5000	5100	102	5100	102	0	83-133/8
108-90-7	Chlorobenzene	ND		5000	5020	100	5110	102	2	78-120/8
124-48-1	Dibromochloromethane	ND		5000	4450	89	4370	87	2	70-117/9
75-00-3	Chloroethane	ND		5000	5280	106	5240	105	1	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		5000	3390	68	2020	40	51*	20-122/32
67-66-3	Chloroform	ND		5000	5010	100	5020	100	0	80-116/7
74-87-3	Chloromethane	ND		5000	7290	146	7290	146	0	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		5000	4880	98	4920	98	1	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		5000	5000	100	4910	98	2	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		5000	5000	100	4910	98	2	67-129/7
75-71-8	Dichlorodifluoromethane	ND		5000	7210	144	7440	149	3	19-163/14
75-34-3	1,1-Dichloroethane	ND		5000	5060	101	4960	99	2	90-129/8
107-06-2	1,2-Dichloroethane	ND		5000	4990	100	4980	100	0	87-117/7
75-35-4	1,1-Dichloroethene	ND		5000	5580	112	5370	107	4	81-139/19
156-59-2	cis-1,2-Dichloroethene	4310		5000	8200	78*	8250	79*	1	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND		5000	5190	104	5250	105	1	88-133/9
78-87-5	1,2-Dichloropropane	ND		5000	5220	104	4960	99	5	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		5000	4970	99	4970	99	0	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		5000	4640	93	4430	89	5	74-125/11
100-41-4	Ethylbenzene	ND		5000	4970	99	5010	100	1	74-127/6
75-09-2	Methylene chloride	4420 ^a		5000	9190	95	8660	85	6	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND		5000	4580	92	4670	93	2	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		5000	4790	96	4650	93	3	80-126/10
127-18-4	Tetrachloroethene	ND		5000	5280	106	5220	104	1	91-125/8
108-88-3	Toluene	483		5000	5150	93	5220	95	1	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		5000	5080	102	5040	101	1	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		5000	4950	99	4900	98	1	85-119/9
79-01-6	Trichloroethene	2390		5000	6950	91	6800	88	2	88-124/8
75-69-4	Trichlorofluoromethane	ND		5000	5110	102	5360	107	5	68-135/15
75-01-4	Vinyl chloride	1050		5000	6750	114	6680	113	1	43-150/22
95-47-6	o-Xylene	ND		5000	4730	95	4800	96	1	77-122/5
	m,p-Xylene	ND		10000	9710	97	9790	98	1	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21662

Account: STOLCOGJ S M Stoller

Project: Quarterly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21742-1MS	QR020597.D	250	01/28/04	RA	n/a	n/a	GQR872
F21742-1MSD	QR020598.D	250	01/28/04	RA	n/a	n/a	GQR872
F21742-1	QR020595.D	100	01/28/04	RA	n/a	n/a	GQR872
F21742-1	QR020596.D	250	01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21662-1

CAS No.	Surrogate Recoveries	MS	MSD	F21742-1	F21742-1	Limits
352-33-0	1-Chloro-4-fluorobenzene	102%	103%	93%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	105%	102%	93%	94%	70-123%
563-58-6	1,1-Dichloropropene	100%	100%	100%	100%	86-112%
563-58-6	1,1-Dichloropropene	98%	98%	97%	104%	86-112%

(a) Result is from Run #2.



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F21662
Account: STOLCOGJ - S M Stoller
Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

01/27/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6		
Antimony	5.0	1.5	anr	
Arsenic	10	2.8	0.46	<10
Barium	200	.5	anr	
Beryllium	5.0	.3	anr	
Cadmium	5.0	.3	anr	
Calcium	1000	3.8	anr	
Chromium	10	.4	anr	
Cobalt	50	.5		
Copper	25	.44	anr	
Iron	300	7.1	anr	
Lead	5.0	1.2	anr	
Magnesium	5000	9.9		
Manganese	15	.16	anr	
Molybdenum	50	.75		
Nickel	40	1.1	anr	
Potassium	5000	14		
Selenium	10	2	anr	
Silver	10	.6	anr	
Sodium	5000	150		
Thallium	10	1.5		
Tin	50	1.5		
Vanadium	50	.47	anr	
Zinc	20	.59		

Associated samples MP6265: F21662-12, F21662-15, F21662-17, F21662-18, F21662-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.1
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21662
 Account: STOLCOGJ - S M Stoller
 Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/27/04 Analyte: 01/27/04

Metal	F21774-1 Original DUP	RPD	QC Limits	F21774-1 Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum							
Antimony	anr						
Arsenic	0.0	2.8	200.0(a)	0-12	0.0	4230	4000
Barium	anr						
Beryllium	anr						
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt							
Copper	anr						
Iron	anr						
Lead	anr						
Magnesium							
Manganese	anr						
Molybdenum							
Nickel	anr						
Potassium							
Selenium	anr						
Silver	anr						
Sodium							
Thallium							
Tin							
Vanadium	anr						
Zinc							

Associated samples MP6265: F21662-12, F21662-15, F21662-17, F21662-18, F21662-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

6.1.2
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21662
 Account: STOLCOGJ - S M Stoller
 Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

01/27/04

Metal	F21774-1 Original	MSD	Spikelot MPFLICP	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony	anr					
Arsenic	0.0	4170	4000	104.3	1.4	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium						
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Thallium						
Tin						
Vanadium	anr					
Zinc						

Associated samples MP6265: F21662-12, F21662-15, F21662-17, F21662-18, F21662-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

6.1.2
6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F21662
 Account: STOLCOGJ - S M Stoller
 Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/27/04

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	4070	4000	101.8	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Thallium				
Tin				
Vanadium	anr			
Zinc				

Associated samples MP6265: F21662-12, F21662-15, F21662-17, F21662-18, F21662-19

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.1.3
6

SERIAL DILUTION RESULTS SUMMARY

Login Number: F21662
 Account: STOLCOGJ - S M Stoller
 Project: Quarterly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6265
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/27/04

Metal	F21774-1 Original	SDL 1:5	RPD	QC Limits
Aluminum				
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Thallium				
Tin				
Vanadium	anr			
Zinc				

Associated samples MP6265: F21662-12, F21662-15, F21662-17, F21662-18, F21662-19

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.4
6

Appendix B

Laboratory Reports for Northeast Site Treatment System—January through March 2004



03/31/04

Technical Report for

S M Stoller

Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F21482

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **38**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: F21482-1: PIN12-RW01-N001	5
3.2: F21482-2: PIN12-RW02-N001	7
3.3: F21482-3: PIN15-INF1-N001	9
3.4: F21482-4: PIN15-EFF1-N001	13
Section 4: Misc. Forms	17
4.1: Chain of Custody	18
Section 5: GC Volatiles - QC Data Summaries	20
5.1: Method Blank Summary	21
5.2: Blank Spike Summary	25
5.3: Matrix Spike/Matrix Spike Duplicate Summary	29
Section 6: Metals Analysis - QC Data Summaries	33
6.1: Prep QC MP6205: Ba,Fe	34

Sample Summary

S M Stoller

Job No: F21482

Monthly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21482-1	01/07/04	10:47 JC	01/07/04	AQ	Ground Water	PIN12-RW01-N001
F21482-2	01/07/04	10:49 JC	01/07/04	AQ	Ground Water	PIN12-RW02-N001
F21482-3	01/07/04	11:10 JC	01/07/04	AQ	Ground Water	PIN15-INF1-N001
F21482-4	01/07/04	11:15 JC	01/07/04	AQ	Ground Water	PIN15-EFF1-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Monthly Sampling, STAR Center, Largo FL
Job No.: F21482
Report Date: January 22, 2004

5 samples were collected on January 07, 2004 and received on January 07, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

Per Julian Caballero we were to add Barium to sample PIN15-EFF1-N001.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs, SW846 8021B:

- Sample PIN15-EFF1-N001 (F21482-4) required a 5X dilution due to foaming. Data has been footnoted accordingly.
- The Blank Spike associated with analytical batch GQR858 had one compound with a recovery above acceptance limits. This compound was non-detect in all associated samples. Data not adversely affected.
- The MS/MSD associated with analytical batch GQR858 had various recoveries and RPDs above acceptance limits. The Blank Spike was within limits, except where noted above. Data not adversely affected.

Metals, SW846 6010:

- The Duplicate associated with batch MP6205 had two RPDs above acceptance limits. The associated Blank Spike was within limits. Data not adversely affected.
- The Serial Dilution associated with batch MP6205 had two RPDs above acceptance limits. The associated Blank Spike was within limits. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: January 22, 2004

Report of Analysis

Page 1 of 2

3-1
3**Client Sample ID:** PIN12-RW01-N001**Lab Sample ID:** F21482-1**Date Sampled:** 01/07/04**Matrix:** AQ - Ground Water**Date Received:** 01/07/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020250.D	20	01/08/04	RA	n/a	n/a	GQR856
Run #2	QR020272.D	400	01/09/04	RA	n/a	n/a	GQR858

Purge Volume

Run #1 5.0 ml

Run #2 5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-00-3	Chloroethane	ND	20	10	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	20	10	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethene	36.2	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethene	3360 ^b	400	200	ug/l	
156-60-5	trans-1,2-Dichloroethene	50.4	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
127-18-4	Tetrachloroethene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
79-01-6	Trichloroethene	5840 ^b	400	200	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3-1

3

Client Sample ID: PIN12-RW01-N001**Lab Sample ID:** F21482-1**Date Sampled:** 01/07/04**Matrix:** AQ - Ground Water**Date Received:** 01/07/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	10	ug/l	
75-01-4	Vinyl chloride	727	20	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	98%	96%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	92%	99%	70-123%
563-58-6	1,1-Dichloropropene	98%	94%	86-112%
563-58-6	1,1-Dichloropropene	93%	101%	86-112%

(a) All hits confirmed by GC/MS.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

32
3

Client Sample ID:	PIN12-RW02-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21482-2	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020277.D	20	01/09/04	RA	n/a	n/a	GQR858
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-00-3	Chloroethane	ND	20	10	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	20	10	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethene	25.2	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethene	888	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	68.4	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
127-18-4	Tetrachloroethene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
79-01-6	Trichloroethene	778	20	10	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32
3**Client Sample ID:** PIN12-RW02-N001**Lab Sample ID:** F21482-2**Date Sampled:** 01/07/04**Matrix:** AQ - Ground Water**Date Received:** 01/07/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	10	ug/l	
75-01-4	Vinyl chloride	136	20	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	102%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
563-58-6	1,1-Dichloropropene	95%		86-112%
563-58-6	1,1-Dichloropropene	95%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

33
3**Client Sample ID:** PIN15-INF1-N001**Lab Sample ID:** F21482-3**Date Sampled:** 01/07/04**Matrix:** AQ - Ground Water**Date Received:** 01/07/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020256.D	10	01/08/04	RA	n/a	n/a	GQR856
Run #2	QR020276.D	200	01/09/04	RA	n/a	n/a	GQR858

Purge Volume

Run #1 5.0 ml

Run #2 5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	16.5	10	5.0	ug/l	
75-27-4	Bromodichloromethane	ND	10	5.0	ug/l	
75-25-2	Bromoform	ND	10	5.0	ug/l	
74-83-9	Bromomethane	ND	10	5.0	ug/l	
56-23-5	Carbon tetrachloride	ND	10	5.0	ug/l	
108-90-7	Chlorobenzene	ND	10	5.0	ug/l	
124-48-1	Dibromochloromethane	ND	10	4.0	ug/l	
75-00-3	Chloroethane	ND	10	5.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	10	5.0	ug/l	
67-66-3	Chloroform	ND	10	5.0	ug/l	
74-87-3	Chloromethane	ND	10	5.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	10	5.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	10	5.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	10	5.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	10	5.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	10	5.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	10	5.0	ug/l	
75-35-4	1,1-Dichloroethene	21.6	10	5.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	3250 ^b	200	100	ug/l	
156-60-5	trans-1,2-Dichloroethene	65.0	10	5.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	10	5.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	10	3.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	10	3.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
75-09-2	Methylene chloride	6430 ^b	1000	200	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	10	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	10	2.0	ug/l	
127-18-4	Tetrachloroethene	ND	10	5.0	ug/l	
108-88-3	Toluene	480	10	5.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	10	5.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	10	5.0	ug/l	
79-01-6	Trichloroethene	1740 ^b	200	100	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

33
3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21482-3	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	10	5.0	ug/l	
75-01-4	Vinyl chloride	1130 ^b	200	100	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	101%	97%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	91%	92%	70-123%
563-58-6	1,1-Dichloropropene	98%	93%	86-112%
563-58-6	1,1-Dichloropropene	84% ^c	95%	86-112%

(a) All hits confirmed by GC/MS.

(b) Result is from Run# 2

(c) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.3
3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21482-3	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	3280	300	48	ug/l	1	01/08/04	01/08/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3633

(2) Prep QC Batch: MP6205

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.3
3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21482-3	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	430	4.0	mg/l	1	01/19/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Page 1 of 2

34
3**Client Sample ID:** PIN15-EFF1-N001**Lab Sample ID:** F21482-4**Date Sampled:** 01/07/04**Matrix:** AQ - Ground Water**Date Received:** 01/07/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020271.D	5	01/09/04	RA	n/a	n/a	GQR858
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform ^b	6.7	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	5.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

34
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21482-4	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	97%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%		70-123%
563-58-6	1,1-Dichloropropene	94%		86-112%
563-58-6	1,1-Dichloropropene	100%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

(b) Confirmed by GC/MS

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

34
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21482-4	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	45.8 B	200	1.1	ug/l	1	01/08/04	01/08/04 DM	SW846 6010B ¹	SW846 3010A ²
Iron	3120	300	48	ug/l	1	01/08/04	01/08/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3633

(2) Prep QC Batch: MP6205

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3-4
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21482-4	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	453	4.0	mg/l	1	01/19/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

F21482

ACCUTEST QUOTE #:

DW - DRINKING WATER
GW - GROUND WATER
WW - WASTE WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER LIQUID
SOL - OTHER SOLID

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES		
NAME: S.M. Stoller ADDRESS: 2597 B 3/4 Rd. CITY: Grand Junction CO STATE: ZIP: 81503 BEND REPORT TO: Keith Miller PHONE #: 970-248-6598			PROJECT NAME: STAR Center LOCATION: Largo, FL PROJECT NO.: 110406202 On-site contact: Barry Rice FAX #: 727-549-1121								
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION			NO. OF HARDNESS	LAB USE ONLY
		DATE	TIME	SAMPLED BY:			NO.	NOCH	HNO3		
1	PIN12-RW01-N001	1-7-04	1047	CX	GW	3	3			3	
2	PIN12-RW02-N001		1049			3	3			3	
3	PIN15-INF1-N001		1110			4	3	1		3	
4	PIN15-EFF1-N001		1115	↓	↓	4	3	1		3	
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS					
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
RELINQUISHED BY SAMPLER: 1. <i>[Signature]</i>	DATE/TIME: 1-7-04 11:20	RECEIVED BY: 1. <i>[Signature]</i>	RELINQUISHED BY: 2. <i>[Signature]</i>	DATE/TIME: 1-7-04 11:20	RECEIVED BY: 2. <i>[Signature]</i>						
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY: 4.	DATE/TIME:	RECEIVED BY: 4.						
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE			ON ICE	TEMPERATURE	2.0	C	

F21482: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F21482

Accutest's Job Number:

Client: SM Stoller Project: Star CenterDate Received: 1/7/04 Time Received: 1330# of Coolers Received: 1 Cooler Temperatures: 2.0

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number:

Cooler Custody Seals Intact ?

 Yes No

Chain of Custody Provided ?

 Yes No

COC Match Bottle Label ID's ?

 Yes No

Sample Labels Present on all bottles ?

 Yes No

All Analyses Marked On COC ?

 Yes No

Are All Bottles Intact ?

 Yes No

Samples Preserved Correctly ?

 Yes No

Correct Number of Containers Used ?

 Yes No

Sufficient Sample Volume ?

 Yes No

Trip Blank Provided ?

 Yes No

Trip Blank on COC ?

 Yes No

Trip Blank Intact ?

 Yes No N/A

Trip Blank Matrix ?

 Soil Water N/A

Number of Enclosures ?

0

Number of Soil Field Kits ?

0

Summary of Comments:

Signature: Munawar MohammedDate: 1/7/04

Review Signature: _____

ASBD 12/30/03

F21482: Chain of Custody**Page 2 of 2**

GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR856-MB	QR020247.D 1		01/08/04	RA	n/a	n/a	GQR856

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR856-MB	QR020247.D 1		01/08/04	RA	n/a	n/a	GQR856

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-3

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	94%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	70-123%
563-58-6	1,1-Dichloropropene	97%	86-112%
563-58-6	1,1-Dichloropropene	107%	86-112%

Method Blank Summary

Page 1 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR858-MB	QR020263.D 1		01/09/04	RA	n/a	n/a	GQR858

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-2, F21482-3, F21482-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR858-MB	QR020263.D 1		01/09/04	RA	n/a	n/a	GQR858

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-2, F21482-3, F21482-4

CAS No.	Surrogate Recoveries	Limits
352-33-0	1-Chloro-4-fluorobenzene	95% 70-123%
352-33-0	1-Chloro-4-fluorobenzene	100% 70-123%
563-58-6	1,1-Dichloropropene	95% 86-112%
563-58-6	1,1-Dichloropropene	105% 86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR856-BS	QR020246.D 1		01/08/04	RA	n/a	n/a	GQR856

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.3	107	86-121
75-27-4	Bromodichloromethane	20	20.1	101	82-107
75-25-2	Bromoform	20	19.4	97	74-111
74-83-9	Bromomethane	20	19.6	98	64-132
56-23-5	Carbon tetrachloride	20	20.8	104	92-129
108-90-7	Chlorobenzene	20	20.9	105	81-119
124-48-1	Dibromochloromethane	20	21.7	109	77-109
75-00-3	Chloroethane	20	19.5	98	83-125
110-75-8	2-Chloroethylvinyl ether	20	23.3	117	45-150
67-66-3	Chloroform	20	19.7	99	85-111
74-87-3	Chloromethane	20	20.9	105	65-141
95-50-1	1,2-Dichlorobenzene	20	20.4	102	75-120
541-73-1	1,3-Dichlorobenzene	20	20.7	104	77-121
106-46-7	1,4-Dichlorobenzene	20	21.1	106	75-122
75-71-8	Dichlorodifluoromethane	20	21.6	108	51-152
75-34-3	1,1-Dichloroethane	20	20.4	102	94-126
107-06-2	1,2-Dichloroethane	20	20.1	101	88-116
75-35-4	1,1-Dichloroethene	20	23.2	116	83-134
156-60-5	trans-1,2-Dichloroethene	20	21.9	110	94-129
78-87-5	1,2-Dichloropropane	20	20.6	103	90-118
10061-01-5	cis-1,3-Dichloropropene	20	20.4	102	96-125
10061-02-6	trans-1,3-Dichloropropene	20	19.1	96	85-120
100-41-4	Ethylbenzene	20	21.8	109	81-126
75-09-2	Methylene chloride	20	21.3	107	72-137
1634-04-4	Methyl Tert Butyl Ether	20	20.0	100	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	20.3	102	82-119
127-18-4	Tetrachloroethene	20	20.9	105	94-125
108-88-3	Toluene	20	20.6	103	82-123
71-55-6	1,1,1-Trichloroethane	20	20.4	102	89-127
79-00-5	1,1,2-Trichloroethane	20	20.2	101	86-117
75-69-4	Trichlorofluoromethane	20	21.1	106	77-139
75-01-4	Vinyl chloride	20	23.1	116	59-146
95-47-6	o-Xylene	20	20.5	103	81-123
	m,p-Xylene	40	42.0	105	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR856-BS	QR020246.D 1		01/08/04	RA	n/a	n/a	GQR856

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-3

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	106%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%	70-123%
563-58-6	1,1-Dichloropropene	98%	86-112%
563-58-6	1,1-Dichloropropene	94%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR858-BS	QR020262.D 1		01/09/04	RA	n/a	n/a	GQR858

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-2, F21482-3, F21482-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.4	102	86-121
75-27-4	Bromodichloromethane	20	20.8	104	82-107
75-25-2	Bromoform	20	20.0	100	74-111
74-83-9	Bromomethane	20	20.2	101	64-132
56-23-5	Carbon tetrachloride	20	22.0	110	92-129
108-90-7	Chlorobenzene	20	21.5	108	81-119
124-48-1	Dibromochloromethane	20	22.3	112*	77-109
75-00-3	Chloroethane	20	20.4	102	83-125
110-75-8	2-Chloroethylvinyl ether	20	24.4	122	45-150
67-66-3	Chloroform	20	20.1	101	85-111
74-87-3	Chloromethane	20	21.1	106	65-141
95-50-1	1,2-Dichlorobenzene	20	20.9	105	75-120
541-73-1	1,3-Dichlorobenzene	20	21.9	110	77-121
106-46-7	1,4-Dichlorobenzene	20	21.9	110	75-122
75-71-8	Dichlorodifluoromethane	20	22.5	113	51-152
75-34-3	1,1-Dichloroethane	20	21.2	106	94-126
107-06-2	1,2-Dichloroethane	20	21.4	107	88-116
75-35-4	1,1-Dichloroethene	20	24.3	122	83-134
156-59-2	cis-1,2-Dichloroethene	20	22.5	113	83-115
156-60-5	trans-1,2-Dichloroethene	20	23.0	115	94-129
78-87-5	1,2-Dichloropropane	20	21.4	107	90-118
10061-01-5	cis-1,3-Dichloropropene	20	21.5	108	96-125
10061-02-6	trans-1,3-Dichloropropene	20	20.4	102	85-120
100-41-4	Ethylbenzene	20	20.9	105	81-126
75-09-2	Methylene chloride	20	23.1	116	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.2	96	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	21.5	108	82-119
127-18-4	Tetrachloroethene	20	22.2	111	94-125
108-88-3	Toluene	20	19.9	100	82-123
71-55-6	1,1,1-Trichloroethane	20	21.6	108	89-127
79-00-5	1,1,2-Trichloroethane	20	21.8	109	86-117
79-01-6	Trichloroethene	20	21.6	108	92-124
75-69-4	Trichlorofluoromethane	20	23.1	116	77-139
75-01-4	Vinyl chloride	20	23.6	118	59-146
95-47-6	o-Xylene	20	19.6	98	81-123
	m,p-Xylene	40	39.9	100	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR858-BS	QR020262.D 1		01/09/04	RA	n/a	n/a	GQR858

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-2, F21482-3, F21482-4

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	109%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	112%	70-123%
563-58-6	1,1-Dichloropropene	95%	86-112%
563-58-6	1,1-Dichloropropene	96%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21454-1MS	QR020253.D 5		01/08/04	RA	n/a	n/a	GQR856
F21454-1MSD	QR020254.D 5		01/08/04	RA	n/a	n/a	GQR856
F21454-1 ^a	QR020248.D 1		01/08/04	RA	n/a	n/a	GQR856
F21454-1 ^a	QR020252.D 5		01/08/04	RA	n/a	n/a	GQR856

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-3

CAS No.	Compound	F21454-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.65	J	100	103	102	99.5	99	3	77-125/6
75-27-4	Bromodichloromethane	ND		100	98.0	98	97.5	98	1	77-111/9
75-25-2	Bromoform	ND		100	97.9	98	99.9	100	2	69-117/9
74-83-9	Bromomethane	ND		100	95.5	96	98.1	98	3	60-134/14
56-23-5	Carbon tetrachloride	ND		100	106	106	102	102	4	83-133/8
108-90-7	Chlorobenzene	ND		100	102	102	97.5	98	5	78-120/8
124-48-1	Dibromochloromethane	ND		100	107	107	103	103	4	70-117/9
75-00-3	Chloroethane	ND		100	95.7	96	99.6	100	4	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		100	121	121	121	121	0	20-122/32
67-66-3	Chloroform	ND		100	97.1	97	94.4	94	3	80-116/7
74-87-3	Chloromethane	ND		100	102	102	99.6	100	2	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		100	97.6	98	99.9	100	2	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		100	98.7	99	98.1	98	1	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		100	100	100	105	105	5	67-129/7
75-71-8	Dichlorodifluoromethane	ND		100	108	108	108	108	0	19-163/14
75-34-3	1,1-Dichloroethane	ND		100	101	101	102	102	1	90-129/8
107-06-2	1,2-Dichloroethane	ND		100	98.9	99	98.2	98	1	87-117/7
75-35-4	1,1-Dichloroethene	ND		100	118	118	116	116	2	81-139/19
156-60-5	trans-1,2-Dichloroethene	ND		100	107	107	104	104	3	88-133/9
78-87-5	1,2-Dichloropropane	ND		100	98.1	98	97.3	97	1	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		100	99.2	99	100	100	1	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		100	96.6	97	96.8	97	0	74-125/11
100-41-4	Ethylbenzene	ND		100	104	104	101	101	3	74-127/6
75-09-2	Methylene chloride	ND		100	107	107	107	107	0	61-144/26
1634-04-4	Methyl Tert Butyl Ether	249 ^b		100	349	100	343	94	2	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	108	108	106	106	2	80-126/10
127-18-4	Tetrachloroethene	ND		100	102	102	102	102	0	91-125/8
108-88-3	Toluene	ND		100	99.1	99	95.3	95	4	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		100	102	102	100	100	2	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		100	102	102	102	102	0	85-119/9
75-69-4	Trichlorofluoromethane	ND		100	106	106	106	106	0	68-135/15
75-01-4	Vinyl chloride	ND		100	114	114	114	114	0	43-150/22
95-47-6	o-Xylene	ND		100	97.4	97	94.2	94	3	77-122/5
	m,p-Xylene	ND		200	198	99	192	96	3	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21454-1MS	QR020253.D	5	01/08/04	RA	n/a	n/a	GQR856
F21454-1MSD	QR020254.D	5	01/08/04	RA	n/a	n/a	GQR856
F21454-1 ^a	QR020248.D	1	01/08/04	RA	n/a	n/a	GQR856
F21454-1 ^a	QR020252.D	5	01/08/04	RA	n/a	n/a	GQR856

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-3

CAS No.	Surrogate Recoveries	MS	MSD	F21454-1	F21454-1	Limits
352-33-0	1-Chloro-4-fluorobenzene	106%	107%	95%	94%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	105%	107%	100%	98%	70-123%
563-58-6	1,1-Dichloropropene	97%	97%	97%	97%	86-112%
563-58-6	1,1-Dichloropropene	94%	93%	105%	103%	86-112%

(a) Sample was not preserved to a pH < 2; reported results are considered minimum values.

(b) Result is from Run #2.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21482-1MS	QR020274.D	400	01/09/04	RA	n/a	n/a	GQR858
F21482-1MSD	QR020275.D	400	01/09/04	RA	n/a	n/a	GQR858
F21482-1	QR020272.D	400	01/09/04	RA	n/a	n/a	GQR858

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-2, F21482-3, F21482-4

CAS No.	Compound	F21482-1 ug/l	Spike Q	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	8000	8570	107	8430	105	2	77-125/6
75-27-4	Bromodichloromethane	ND	8000	8410	105	7880	99	7	77-111/9
75-25-2	Bromoform	ND	8000	8470	106	7930	99	7	69-117/9
74-83-9	Bromomethane	ND	8000	8390	105	7650	96	9	60-134/14
56-23-5	Carbon tetrachloride	ND	8000	8650	108	8210	103	5	83-133/8
108-90-7	Chlorobenzene	ND	8000	8750	109	7970	100	9*	78-120/8
124-48-1	Dibromochloromethane	ND	8000	9120	114	8360	105	9	70-117/9
75-00-3	Chloroethane	ND	8000	8280	104	7660	96	8	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND	8000	10000	125*	9390	117	6	20-122/32
67-66-3	Chloroform	ND	8000	8300	104	7820	98	6	80-116/7
74-87-3	Chloromethane	ND	8000	8520	107	8150	102	4	42-154/21
95-50-1	1,2-Dichlorobenzene	ND	8000	8510	106	7760	97	9*	69-125/7
541-73-1	1,3-Dichlorobenzene	ND	8000	8470	106	7890	99	7	71-126/7
106-46-7	1,4-Dichlorobenzene	ND	8000	8800	110	8330	104	5	67-129/7
75-71-8	Dichlorodifluoromethane	ND	8000	9340	117	8470	106	10	19-163/14
75-34-3	1,1-Dichloroethane	ND	8000	8580	107	8120	102	6	90-129/8
107-06-2	1,2-Dichloroethane	ND	8000	8590	107	8020	100	7	87-117/7
75-35-4	1,1-Dichloroethene	ND	8000	9860	123	9410	118	5	81-139/19
156-59-2	cis-1,2-Dichloroethene	3360	8000	12500	114	11800	106	6	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND	8000	9150	114	8350	104	9	88-133/9
78-87-5	1,2-Dichloropropane	ND	8000	8830	110	8050	101	9	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND	8000	8560	107	8080	101	6	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND	8000	8080	101	7740	97	4	74-125/11
100-41-4	Ethylbenzene	ND	8000	8780	110	8660	108	1	74-127/6
75-09-2	Methylene chloride	ND	8000	9210	115	8640	108	6	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND	8000	8340	104	8270	103	1	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND	8000	9200	115	8610	108	7	80-126/10
127-18-4	Tetrachloroethene	ND	8000	8730	109	8040	101	8	91-125/8
108-88-3	Toluene	ND	8000	8260	103	8210	103	1	77-124/5
71-55-6	1,1,1-Trichloroethane	ND	8000	8690	109	8140	102	7	85-129/9
79-00-5	1,1,2-Trichloroethane	ND	8000	8800	110	8250	103	6	85-119/9
79-01-6	Trichloroethene	5840	8000	14600	110	13400	95	9*	88-124/8
75-69-4	Trichlorofluoromethane	ND	8000	9520	119	8920	112	7	68-135/15
75-01-4	Vinyl chloride	ND	8000	10600	133	10300	129	3	43-150/22
95-47-6	o-Xylene	ND	8000	8210	103	8150	102	1	77-122/5
	m,p-Xylene	ND	16000	16700	104	16600	104	1	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21482

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21482-1MS	QR020274.D	400	01/09/04	RA	n/a	n/a	GQR858
F21482-1MSD	QR020275.D	400	01/09/04	RA	n/a	n/a	GQR858
F21482-1	QR020272.D	400	01/09/04	RA	n/a	n/a	GQR858

The QC reported here applies to the following samples:

Method: SW846 8021B

F21482-1, F21482-2, F21482-3, F21482-4

CAS No.	Surrogate Recoveries	MS	MSD	F21482-1	Limits
352-33-0	1-Chloro-4-fluorobenzene	110%	110%	96%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	114%	108%	99%	70-123%
563-58-6	1,1-Dichloropropene	94%	94%	94%	86-112%
563-58-6	1,1-Dichloropropene	95%	90%	101%	86-112%



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F21482
Account: STOLCOGJ - S M Stoller
Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 01/08/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6	anr	
Antimony	5.0	1.5	anr	
Arsenic	10	2.8	anr	
Barium	200	.5	-0.83	<200
Beryllium	5.0	.3	anr	
Cadmium	5.0	.3	anr	
Calcium	1000	3.8	anr	
Chromium	10	.4	anr	
Cobalt	50	.5	anr	
Copper	25	.44	anr	
Iron	300	7.1	-14	<300
Lead	5.0	1.2	anr	
Magnesium	5000	9.9	anr	
Manganese	15	.16	anr	
Molybdenum	50	.75		
Nickel	40	1.1	anr	
Potassium	5000	14	anr	
Selenium	10	2	anr	
Silver	10	.6	anr	
Sodium	5000	150	anr	
Thallium	10	1.5	anr	
Tin	50	1.5		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP6205: F21482-3, F21482-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21482
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

01/08/04

01/08/04

Metal	F21478-1 Original DUP	RPD	QC Limits	F21478-1 Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr						
Antimony	anr						
Arsenic	anr						
Barium	3.8	3.3	14.1 (a)	0-13	3.8	3880	4000
Beryllium	anr						
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt	anr						
Copper	anr						
Iron	65.7	35.1	60.7 (a)	0-14	65.7	27700	27000
Lead	anr						
Magnesium	anr						
Manganese	anr						
Molybdenum							
Nickel	anr						
Potassium	anr						
Selenium	anr						
Silver	anr						
Sodium	anr						
Thallium							
Tin							
Vanadium	anr						
Zinc	anr						

Associated samples MP6205: F21482-3, F21482-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

6.1.2
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21482

Account: STOLCOGJ - S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date:

01/08/04

Metal	F21478-1 Original	MSD	Spikelot MPFLICP	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	3.8	3880	4000	96.9	0.0	20
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	65.7	27700	27000	102.3	0.0	20
Lead	anr					
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Thallium						
Tin						
Vanadium	anr					
Zinc	anr					

Associated samples MP6205: F21482-3, F21482-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

6.1.2
6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F21482
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/08/04

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	3770	4000	94.3	80-120
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	26900	27000	99.6	80-120
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6205: F21482-3, F21482-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.3
6

SERIAL DILUTION RESULTS SUMMARY

Login Number: F21482
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/08/04

Metal	F21478-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	3.77	0.00	100.0(a)	0-10
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	65.7	0.00	100.0(a)	0-10
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium				
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6205: F21482-3, F21482-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

6.1.4
6



03/31/04

Technical Report for

S M Stoller

Mid-Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F21742

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **28**



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Conference
and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: F21742-1: PIN15-INF1-N001	5
3.2: F21742-2: PIN15-EFF1-N001	9
Section 4: Misc. Forms	13
4.1: Chain of Custody	14
Section 5: GC Volatiles - QC Data Summaries	16
5.1: Method Blank Summary	17
5.2: Blank Spike Summary	19
5.3: Matrix Spike/Matrix Spike Duplicate Summary	21
Section 6: Metals Analysis - QC Data Summaries	23
6.1: Prep QC MP6280: Fe	24



Sample Summary

S M Stoller

Job No: F21742

Mid-Monthly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21742-1	01/20/04	11:15 JC	01/21/04	AQ	Ground Water	PIN15-INF1-N001
F21742-2	01/20/04	11:20 JC	01/21/04	AQ	Ground Water	PIN15-EFF1-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Mid-Monthly Sampling, STAR Center, Largo FL
Job No.: F21742
Report Date: February 04, 2004

2 samples were collected on January 20, 2004 and received on January 21, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs, SW846 8021B:

- Samples PIN15-EFF1-N001 (F21742-2) required a 2X dilution due to foaming. Also, Methyl Tert Butyl Ether has an elevated reporting limit due to matrix interference. Data has been footnoted accordingly.
- The Blank Spike associated with analytical batch GQR872 had one recovery above acceptance limits. This compound was non-detect in all associated samples. Data not adversely affected.
- The MS/MSD associated with analytical batch GQR872 had various recoveries and RPDs below and/or above acceptance limits. The Blank Spike was within limits, except where noted above. Data not adversely affected.

Metals, SW846 6010B:

- The Serial Dilution associated with batch MP6280 had one RPD above acceptance limits. The Blank Spike was within limits. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: February 04, 2004

Report of Analysis

Page 1 of 2

3-1
3**Client Sample ID:** PIN15-INF1-N001**Lab Sample ID:** F21742-1**Date Sampled:** 01/20/04**Matrix:** AQ - Ground Water**Date Received:** 01/21/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020595.D	100	01/28/04	RA	n/a	n/a	GQR872
Run #2	QR020596.D	250	01/28/04	RA	n/a	n/a	GQR872

Purge Volume

Run #1 5.0 ml

Run #2 5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	4310	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	ND	100	50	ug/l	
75-09-2	Methylene chloride	4420 a	1300	250	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	483	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	2390	100	50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3-1

3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	01/20/04
Lab Sample ID:	F21742-1	Date Received:	01/21/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	1050	100	50	ug/l	
95-47-6	o-Xylene	ND	100	50	ug/l	
	m,p-Xylene	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	93%	94%	70-123%
563-58-6	1,1-Dichloropropene	100%	100%	86-112%
563-58-6	1,1-Dichloropropene	97%	104%	86-112%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID: PIN15-INF1-N001**Lab Sample ID:** F21742-1**Date Sampled:** 01/20/04**Matrix:** AQ - Ground Water**Date Received:** 01/21/04**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL**Percent Solids:** n/a**Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	3970	300	48	ug/l	1	01/30/04	02/02/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3662

(2) Prep QC Batch: MP6280

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID: PIN15-INF1-N001**Lab Sample ID:** F21742-1**Matrix:** AQ - Ground Water**Date Sampled:** 01/20/04**Date Received:** 01/21/04**Percent Solids:** n/a**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	470	4.0	mg/l	1	02/03/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Page 1 of 2

32
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	01/20/04
Lab Sample ID:	F21742-2	Date Received:	01/21/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020594.D	2	01/28/04	RA	n/a	n/a	GQR872
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	1.0	ug/l	
75-25-2	Bromoform	ND	2.0	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.80	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	10.9	2.0	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.60	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.60	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether ^b	ND	6.00	6.00	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	2.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	1.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	01/20/04
Lab Sample ID:	F21742-2	Date Received:	01/21/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	ug/l	
95-47-6	o-Xylene	ND	2.0	1.0	ug/l	
	m,p-Xylene	ND	4.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	98%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	103%		86-112%

(a) Dilution required due to matrix interference (sample foamed). Confirmed by GC/MS.

(b) Elevated reporting limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

32
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	01/20/04
Lab Sample ID:	F21742-2	Date Received:	01/21/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	3290	300	48	ug/l	1	01/30/04	02/02/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3662

(2) Prep QC Batch: MP6280

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID: PIN15-EFF1-N001**Lab Sample ID:** F21742-2**Matrix:** AQ - Ground Water**Date Sampled:** 01/20/04**Date Received:** 01/21/04**Percent Solids:** n/a**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	470	4.0	mg/l	1	02/03/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15

ORLANDO, FL 32811

TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

F21742

CLIENT INFORMATION		FACILITY INFORMATION						ANALYTICAL INFORMATION		MATRIX CODES		
NAME: S.M. Stoller ADDRESS: 2597 B 3/4 Rd. CITY: Grand Junction CO STATE: 81503 ZIP: BEND REPORT TO: Keith Miller PHONE #: 970-248-6598		PROJECT NAME: STAR Center - mid-month LOCATION: Largo, FL PROJECT NO.: 110406202 On-site contact: Barry Rice FAX #: 727-549-1121										
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION			VOCs	Fe + Hardness	LAB USE ONLY
		DATE	TIME	SAMPLED BY:			HCl	NH ₃	CO ₂			
1.	PIN15-INF1-N001	1-20-04	1115	af	GW	4	3	1		3	1	
2.	PIN15-EFF1-N001	1-20-04	1120	af	GW	4	3	1		3	1	
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION						COMMENTS/REMARKS			
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____									
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY												
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:							
1. <i>Keith Miller</i>	1-20-04	1. <i>M. Mohammed</i>	2. <i>M. Mohammed</i>	14:30	2. <i>M. Mohammed</i>							
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:							
3. <i>M. Mohammed</i>	af 21	3. <i>M. Mohammed</i>	4. <i>M. Mohammed</i>		4. <i>M. Mohammed</i>							
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE			ON ICE	TEMPERATURE				
5. <i>M. Mohammed</i>		5. <i>M. Mohammed</i>					□	2.6 C				

F21742: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F21742

Accutest's Job Number:

Client: SM Stoller Project: Star Center - mid MouthDate Received: 1/21/04 Time Received: 1430# of Coolers Received: 1 Cooler Temperatures: 18.0° 37.2 21.6

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number:

Cooler Custody Seals Intact ?

 Yes

No

Chain of Custody Provided ?

 Yes

No

COC Match Bottle Label ID's ?

 Yes

No

Sample Labels Present on all bottles ?

 Yes

No

All Analyses Marked On COC ?

 Yes

No

Are All Bottles Intact ?

 Yes

No

Samples Preserved Correctly ?

 Yes

No

Correct Number of Containers Used ?

 Yes

No

Sufficient Sample Volume ?

 Yes

No

Trip Blank Provided ?

 Yes

No

Trip Blank on COC ?

 Yes

No

Trip Blank Intact ?

 Yes

No

 N/A

Trip Blank Matrix ?

 Soil Water N/A

Number of Enclosures ?

0

Number of Soil Field Kits ?

0

Summary of Comments:

F21742: Chain of Custody**Page 2 of 2**Signature: Muram Mahanum Date: 1/21/04

Review Signature: _____

ASBD 12/30/03

GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F21742

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR872-MB	QR020592.D 1		01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21742-1, F21742-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21742

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR872-MB	QR020592.D 1		01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21742-1, F21742-2

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	91%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%	70-123%
563-58-6	1,1-Dichloropropene	99%	86-112%
563-58-6	1,1-Dichloropropene	108%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21742

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR872-BS	QR020591.D 1		01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21742-1, F21742-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.4	102	86-121
75-27-4	Bromodichloromethane	20	20.0	100	82-107
75-25-2	Bromoform	20	18.5	93	74-111
74-83-9	Bromomethane	20	22.3	112	64-132
56-23-5	Carbon tetrachloride	20	20.6	103	92-129
108-90-7	Chlorobenzene	20	20.7	104	81-119
124-48-1	Dibromochloromethane	20	18.4	92	77-109
75-00-3	Chloroethane	20	21.4	107	83-125
110-75-8	2-Chloroethylvinyl ether	20	17.0	85	45-150
67-66-3	Chloroform	20	19.9	100	85-111
74-87-3	Chloromethane	20	29.4	147*	65-141
95-50-1	1,2-Dichlorobenzene	20	20.2	101	75-120
541-73-1	1,3-Dichlorobenzene	20	20.4	102	77-121
106-46-7	1,4-Dichlorobenzene	20	20.2	101	75-122
75-71-8	Dichlorodifluoromethane	20	29.6	148	51-152
75-34-3	1,1-Dichloroethane	20	19.9	100	94-126
107-06-2	1,2-Dichloroethane	20	19.9	100	88-116
75-35-4	1,1-Dichloroethene	20	22.4	112	83-134
156-59-2	cis-1,2-Dichloroethene	20	21.9	110	83-115
156-60-5	trans-1,2-Dichloroethene	20	19.7	99	94-129
78-87-5	1,2-Dichloropropane	20	20.4	102	90-118
10061-01-5	cis-1,3-Dichloropropene	20	20.5	103	96-125
10061-02-6	trans-1,3-Dichloropropene	20	18.8	94	85-120
100-41-4	Ethylbenzene	20	21.0	105	81-126
75-09-2	Methylene chloride	20	19.3	97	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.0	95	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	19.5	98	82-119
127-18-4	Tetrachloroethene	20	20.9	105	94-125
108-88-3	Toluene	20	20.5	103	82-123
71-55-6	1,1,1-Trichloroethane	20	20.1	101	89-127
79-00-5	1,1,2-Trichloroethane	20	19.5	98	86-117
79-01-6	Trichloroethene	20	21.4	107	92-124
75-69-4	Trichlorofluoromethane	20	20.9	105	77-139
75-01-4	Vinyl chloride	20	24.1	121	59-146
95-47-6	o-Xylene	20	20.1	101	81-123
	m,p-Xylene	40	41.1	103	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21742

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR872-BS	QR020591.D 1		01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21742-1, F21742-2

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	97%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21742

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21742-1MS	QR020597.D	250	01/28/04	RA	n/a	n/a	GQR872
F21742-1MSD	QR020598.D	250	01/28/04	RA	n/a	n/a	GQR872
F21742-1	QR020595.D	100	01/28/04	RA	n/a	n/a	GQR872
F21742-1	QR020596.D	250	01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21742-1, F21742-2

CAS No.	Compound	F21742-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		5000	4890	98	4930	99	1	77-125/6
75-27-4	Bromodichloromethane	ND		5000	4890	98	4800	96	2	77-111/9
75-25-2	Bromoform	ND		5000	4630	93	4530	91	2	69-117/9
74-83-9	Bromomethane	ND		5000	5530	111	5410	108	2	60-134/14
56-23-5	Carbon tetrachloride	ND		5000	5100	102	5100	102	0	83-133/8
108-90-7	Chlorobenzene	ND		5000	5020	100	5110	102	2	78-120/8
124-48-1	Dibromochloromethane	ND		5000	4450	89	4370	87	2	70-117/9
75-00-3	Chloroethane	ND		5000	5280	106	5240	105	1	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		5000	3390	68	2020	40	51*	20-122/32
67-66-3	Chloroform	ND		5000	5010	100	5020	100	0	80-116/7
74-87-3	Chloromethane	ND		5000	7290	146	7290	146	0	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		5000	4880	98	4920	98	1	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		5000	5000	100	4910	98	2	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		5000	5000	100	4910	98	2	67-129/7
75-71-8	Dichlorodifluoromethane	ND		5000	7210	144	7440	149	3	19-163/14
75-34-3	1,1-Dichloroethane	ND		5000	5060	101	4960	99	2	90-129/8
107-06-2	1,2-Dichloroethane	ND		5000	4990	100	4980	100	0	87-117/7
75-35-4	1,1-Dichloroethene	ND		5000	5580	112	5370	107	4	81-139/19
156-59-2	cis-1,2-Dichloroethene	4310		5000	8200	78*	8250	79*	1	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND		5000	5190	104	5250	105	1	88-133/9
78-87-5	1,2-Dichloropropane	ND		5000	5220	104	4960	99	5	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		5000	4970	99	4970	99	0	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		5000	4640	93	4430	89	5	74-125/11
100-41-4	Ethylbenzene	ND		5000	4970	99	5010	100	1	74-127/6
75-09-2	Methylene chloride	4420 ^a		5000	9190	95	8660	85	6	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND		5000	4580	92	4670	93	2	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		5000	4790	96	4650	93	3	80-126/10
127-18-4	Tetrachloroethene	ND		5000	5280	106	5220	104	1	91-125/8
108-88-3	Toluene	483		5000	5150	93	5220	95	1	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		5000	5080	102	5040	101	1	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		5000	4950	99	4900	98	1	85-119/9
79-01-6	Trichloroethene	2390		5000	6950	91	6800	88	2	88-124/8
75-69-4	Trichlorofluoromethane	ND		5000	5110	102	5360	107	5	68-135/15
75-01-4	Vinyl chloride	1050		5000	6750	114	6680	113	1	43-150/22
95-47-6	o-Xylene	ND		5000	4730	95	4800	96	1	77-122/5
	m,p-Xylene	ND		10000	9710	97	9790	98	1	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21742

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21742-1MS	QR020597.D	250	01/28/04	RA	n/a	n/a	GQR872
F21742-1MSD	QR020598.D	250	01/28/04	RA	n/a	n/a	GQR872
F21742-1	QR020595.D	100	01/28/04	RA	n/a	n/a	GQR872
F21742-1	QR020596.D	250	01/28/04	RA	n/a	n/a	GQR872

The QC reported here applies to the following samples:

Method: SW846 8021B

F21742-1, F21742-2

CAS No.	Surrogate Recoveries	MS	MSD	F21742-1	F21742-1	Limits
352-33-0	1-Chloro-4-fluorobenzene	102%	103%	93%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	105%	102%	93%	94%	70-123%
563-58-6	1,1-Dichloropropene	100%	100%	100%	100%	86-112%
563-58-6	1,1-Dichloropropene	98%	98%	97%	104%	86-112%

(a) Result is from Run #2.



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F21742
Account: STOLCOGJ - S M Stoller
Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6280
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

01/30/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6		
Antimony	5.0	1.5		
Arsenic	10	2.8	anr	
Barium	200	.5	anr	
Beryllium	4.0	.3		
Cadmium	5.0	.3		
Calcium	1000	3.8		
Chromium	10	.4	anr	
Cobalt	50	.5		
Copper	25	.44		
Iron	300	7.1	-9.1	<300
Lead	5.0	1.2	anr	
Magnesium	5000	9.9		
Manganese	15	.16	anr	
Molybdenum	50	.75		
Nickel	40	1.1		
Potassium	5000	14		
Selenium	10	2		
Silver	10	.6		
Sodium	5000	150		
Thallium	10	1.5		
Tin	50	1.5		
Vanadium	50	.47		
Zinc	20	.59		

Associated samples MP6280: F21742-1, F21742-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21742
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6280
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/30/04 Analyte: 01/30/04

Metal	F21737-2 Original DUP	RPD	QC Limits	F21737-2 Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum							
Antimony							
Arsenic	anr						
Barium	anr						
Beryllium							
Cadmium							
Calcium							
Chromium	anr						
Cobalt							
Copper							
Iron	2980	2980	0.0	0-14	2980	32600	27000
Lead	anr						
Magnesium							
Manganese	anr						
Molybdenum							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							
Thallium							
Tin							
Vanadium							
Zinc							

Associated samples MP6280: F21742-1, F21742-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

6.1.2
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21742
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6280
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/30/04

Metal	F21737-2 Original	MSD	Spikelot MPFLICP	% Rec	MSD RPD	QC Limit
-------	----------------------	-----	---------------------	-------	------------	-------------

Aluminum						
Antimony						
Arsenic	anr					
Barium	anr					
Beryllium						
Cadmium						
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron	2980	32400	27000	109.0	0.6	20
Lead	anr					
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Tin						
Vanadium						
Zinc						

Associated samples MP6280: F21742-1, F21742-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F21742
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6280
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/30/04

Metal	BSP Result	Spikelot MPFLICP	QC % Rec	Limits
-------	------------	------------------	----------	--------

Aluminum

Antimony

Arsenic anr

Barium anr

Beryllium

Cadmium

Calcium

Chromium anr

Cobalt

Copper

Iron 29200 27000 108.1 80-120

Lead anr

Magnesium

Manganese anr

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP6280: F21742-1, F21742-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.3
6

SERIAL DILUTION RESULTS SUMMARY

Login Number: F21742
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6280
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/30/04

Metal	F21737-2 Original	SDL 1:5	RPD	QC Limits
-------	----------------------	---------	-----	--------------

Aluminum				
Antimony				
Arsenic	anr			
Barium	anr			
Beryllium				
Cadmium				
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	2980	3320	11.4*(a)	0-10
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium				
Silver				
Sodium				
Thallium				
Tin				
Vanadium				
Zinc				

Associated samples MP6280: F21742-1, F21742-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Serial dilution indicates possible matrix interference.



Southeast

03/31/04

Technical Report for

S M Stoller

Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F21944

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **38**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink, appearing to read "Harry Behzadi".

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: F21944-1: PIN12-RW01-N001	5
3.2: F21944-2: PIN12-RW02-N001	7
3.3: F21944-3: PIN15-INF1-N001	9
3.4: F21944-4: PIN15-EFF1-N001	13
Section 4: Misc. Forms	17
4.1: Chain of Custody	18
Section 5: GC Volatiles - QC Data Summaries	20
5.1: Method Blank Summary	21
5.2: Blank Spike Summary	25
5.3: Matrix Spike/Matrix Spike Duplicate Summary	29
Section 6: Metals Analysis - QC Data Summaries	33
6.1: Prep QC MP6342: Fe	34

Sample Summary

S M Stoller

Job No: F21944Monthly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21944-1	02/03/04	10:56 JC	02/03/04	AQ	Ground Water	PIN12-RW01-N001
F21944-2	02/03/04	10:58 JC	02/03/04	AQ	Ground Water	PIN12-RW02-N001
F21944-3	02/03/04	11:10 JC	02/03/04	AQ	Ground Water	PIN15-INF1-N001
F21944-4	02/03/04	11:15 JC	02/03/04	AQ	Ground Water	PIN15-EFF1-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Monthly Sampling, STAR Center, Largo FL
Job No.: F21944
Report Date: February 19, 2004

4 samples were collected on February 03, 2004 and received on February 03, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes.

VOCs, SW846 8021B:

- Sample PIN12-EFF1-N001 (F21944-4) required a 5X dilution due to foaming. Data has been footnoted accordingly.
- The Blank Spike associated with analytical batch GQR880 had one compound with a recovery 3% below acceptance limits. This compound was non-detect in all associated samples. This compound was within limits in the associates MS/MSD. Data not adversely affected.
- The MS/MSD associated with analytical batch GQR880 had various recoveries below acceptance limits. The Blank Spike was within limits, except where noted above. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: February 19, 2004

Report of Analysis

Page 1 of 2

3-1
3**Client Sample ID:** PIN12-RW01-N001**Lab Sample ID:** F21944-1**Date Sampled:** 02/03/04**Matrix:** AQ - Ground Water**Date Received:** 02/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020703.D	20	02/10/04	RA	n/a	n/a	GQR878
Run #2	QR020707.D	400	02/10/04	RA	n/a	n/a	GQR878

Purge Volume

Run #1 5.0 ml

Run #2 5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-00-3	Chloroethane	ND	20	10	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	20	10	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethene	50.5	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethene	3160 a	400	200	ug/l	
156-60-5	trans-1,2-Dichloroethene	65.9	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
127-18-4	Tetrachloroethene	11.5	20	10	ug/l	J
108-88-3	Toluene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
79-01-6	Trichloroethene	5770 a	400	200	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3-1

3

Client Sample ID: PIN12-RW01-N001**Lab Sample ID:** F21944-1**Date Sampled:** 02/03/04**Matrix:** AQ - Ground Water**Date Received:** 02/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	10	ug/l	
75-01-4	Vinyl chloride	758	20	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	95%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	88%	91%	70-123%
563-58-6	1,1-Dichloropropene	102%	101%	86-112%
563-58-6	1,1-Dichloropropene	94%	103%	86-112%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

32
3

Client Sample ID:	PIN12-RW02-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21944-2	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020751.D	20	02/12/04	RA	n/a	n/a	GQR880
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-00-3	Chloroethane	ND	20	10	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	20	10	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethene	22.2	20	10	ug/l	
156-59-2	cis-1,2-Dichloroethene	926	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	66.1	20	10	ug/l	
78-87-5	1,2-Dichloropropane	ND	20	10	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
127-18-4	Tetrachloroethene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
79-01-6	Trichloroethene	651	20	10	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32
3

Client Sample ID:	PIN12-RW02-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21944-2	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	10	ug/l	
75-01-4	Vinyl chloride	87.3	20	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	93%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	91%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	99%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

33
3**Client Sample ID:** PIN15-INF1-N001**Lab Sample ID:** F21944-3**Date Sampled:** 02/03/04**Matrix:** AQ - Ground Water**Date Received:** 02/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020705.D	100	02/10/04	RA	n/a	n/a	GQR878
Run #2	QR020710.D	400	02/10/04	RA	n/a	n/a	GQR878

Purge Volume

Run #1 5.0 ml

Run #2 5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	4560	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	ND	100	50	ug/l	
75-09-2	Methylene chloride	6220 ^b	2000	400	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	798	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	2530	100	50	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

33
3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21944-3	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	1070	100	50	ug/l	
95-47-6	o-Xylene	ND	100	50	ug/l	
	m,p-Xylene	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	94%	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	88%	88%	70-123%
563-58-6	1,1-Dichloropropene	101%	101%	86-112%
563-58-6	1,1-Dichloropropene	97%	102%	86-112%

(a) All hits confirmed by GC/MS.

(b) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.3
3**Client Sample ID:** PIN15-INF1-N001**Lab Sample ID:** F21944-3**Matrix:** AQ - Ground Water**Date Sampled:** 02/03/04**Date Received:** 02/03/04**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	4680	300	48	ug/l	1	02/13/04	02/16/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3683

(2) Prep QC Batch: MP6342

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.3
3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21944-3	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	490	4.0	mg/l	1	02/18/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Page 1 of 2

34
3**Client Sample ID:** PIN15-EFF1-N001**Lab Sample ID:** F21944-4**Date Sampled:** 02/03/04**Matrix:** AQ - Ground Water**Date Received:** 02/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020752.D	5	02/12/04	RA	n/a	n/a	GQR880
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
75-27-4	Bromodichloromethane	ND	5.0	2.5	ug/l	
75-25-2	Bromoform	ND	5.0	2.5	ug/l	
74-83-9	Bromomethane	ND	5.0	2.5	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	2.5	ug/l	
108-90-7	Chlorobenzene	ND	5.0	2.5	ug/l	
124-48-1	Dibromochloromethane	ND	5.0	2.0	ug/l	
75-00-3	Chloroethane	ND	5.0	2.5	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	5.0	2.5	ug/l	
67-66-3	Chloroform	ND	5.0	2.5	ug/l	
74-87-3	Chloromethane	ND	5.0	2.5	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	5.0	2.5	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	5.0	2.5	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	5.0	2.5	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	2.5	ug/l	
75-34-3	1,1-Dichloroethane	ND	5.0	2.5	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	2.5	ug/l	
75-35-4	1,1-Dichloroethene	ND	5.0	2.5	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	2.5	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	2.5	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	1.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
75-09-2	Methylene chloride	ND	25	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.0	5.0	2.5	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	1.0	ug/l	
127-18-4	Tetrachloroethene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	5.0	2.5	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	2.5	ug/l	
79-01-6	Trichloroethene	ND	5.0	2.5	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

34
3**Client Sample ID:** PIN15-EFF1-N001**Lab Sample ID:** F21944-4**Date Sampled:** 02/03/04**Matrix:** AQ - Ground Water**Date Received:** 02/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	5.0	2.5	ug/l	
75-01-4	Vinyl chloride	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	95%		70-123%
563-58-6	1,1-Dichloropropene	99%		86-112%
563-58-6	1,1-Dichloropropene	106%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

34
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21944-4	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	3590	300	48	ug/l	1	02/13/04	02/16/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3683

(2) Prep QC Batch: MP6342

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3-4
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21944-4	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	489	4.0	mg/l	1	02/18/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811

TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: **F21944**
ACCUTEST QUOTE #:

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES		
S.M. Stoller NAME: 2597 B 3/4 Rd. ADDRESS: Grand Junction CO 81503 CITY: STATE: ZIP: Keith Miller SEND REPORT TO: PHONE #: 970-248-6598			STAR Center - Monthly PROJECT NAME: Largo, FL LOCATION: 1104 06202 PROJECT NO.: On-site contact: Barry Rice FAX #: 727-549-1121								
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION		COLLECTION		MATRIX	# OF BOTTLES	PRESERVATION		VOC-8021 Fe + Hg address	DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
			DATE	TIME			SAMPLED BY:	NOH			HMO
1	PIN12-RW01-N001		2-3-04	1056	OK	GW	3	3			
2	PIN12-RW02-N001			1058	OK	GW	3	3			
3	PIN15-INF1-N001			1110	OK	GW	4	3	1		
4	PIN15-EFF1-N001			1115	OK	GW	4	3	1		
									LAB USE ONLY		
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS					
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____		APPROVED BY: _____		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____							
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY											
RELINQUISHED BY / SAMPLER:	DATE / TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE / TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE / TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE / TIME:	
1.	2-3-04 /	11-10-2004 14:30	2.	11-10-2004 14:30	Jeff Miller	3.	11-10-2004 14:30	Jeff Miller	4.	11-10-2004 14:30	
RELINQUISHED BY:	DATE / TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE / TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE / TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE / TIME:	
3.		3.				4.		4.			
RELINQUISHED BY:	DATE / TIME:	RECEIVED BY:	SEAL #	PRESERVE WHERE APPLICABLE			ON ICE		TEMPERATURE		
5.		5.					□	□	-1	-10 C	

F21944: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F21944

Client: S.M. Stoller Project: Star Center - Monthly

Date Received: 2/14/04 Time Received: 17:45

of Coolers Received: 2 Cooler Temperatures: -1, -1

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number:

Cooler Custody Seals Intact? Yes No

Chain of Custody Provided? Yes No

COC Match Bottle Label ID's? Yes No

Sample Labels Present on all bottles? Yes No

All Analyses Marked On COC? Yes No

Are All Bottles Intact? Yes No

Samples Preserved Correctly? Yes No

Correct Number of Containers Used? Yes No

Sufficient Sample Volume? Yes No

Trip Blank Provided? Yes No

Trip Blank on COC? Yes No

Trip Blank Intact? Yes No N/A

Trip Blank Matrix? Soil Water N/A

Number of Enclosures? 0

Number of Soil Field Kits? 0

Summary of Comments:

Signature: Muhammad Date: 2/14/04

Review Signature: Muhammad

ASBD 12/30/03

F21944: Chain of Custody

Page 2 of 2



GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR878-MB	QR020702.D 1		02/10/04	RA	n/a	n/a	GQR878

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-1, F21944-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR878-MB	QR020702.D	1	02/10/04	RA	n/a	n/a	GQR878

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-1, F21944-3

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	91%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	93%	70-123%
563-58-6	1,1-Dichloropropene	101%	86-112%
563-58-6	1,1-Dichloropropene	107%	86-112%

Method Blank Summary

Page 1 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR880-MB	QR020747.D 1		02/12/04	RA	n/a	n/a	GQR880

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-2, F21944-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR880-MB	QR020747.D 1		02/12/04	RA	n/a	n/a	GQR880

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-2, F21944-4

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	91%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	96%	70-123%
563-58-6	1,1-Dichloropropene	97%	86-112%
563-58-6	1,1-Dichloropropene	105%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR878-BS	QR020701.D 1		02/10/04	RA	n/a	n/a	GQR878

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-1, F21944-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.6	103	86-121
75-27-4	Bromodichloromethane	20	19.4	97	82-107
75-25-2	Bromoform	20	17.6	88	74-111
74-83-9	Bromomethane	20	20.6	103	64-132
56-23-5	Carbon tetrachloride	20	19.9	100	92-129
108-90-7	Chlorobenzene	20	19.2	96	81-119
124-48-1	Dibromochloromethane	20	18.8	94	77-109
75-00-3	Chloroethane	20	19.0	95	83-125
110-75-8	2-Chloroethylvinyl ether	20	18.7	94	45-150
67-66-3	Chloroform	20	18.4	92	85-111
74-87-3	Chloromethane	20	19.2	96	65-141
95-50-1	1,2-Dichlorobenzene	20	19.0	95	75-120
541-73-1	1,3-Dichlorobenzene	20	19.5	98	77-121
106-46-7	1,4-Dichlorobenzene	20	19.3	97	75-122
75-71-8	Dichlorodifluoromethane	20	21.1	106	51-152
75-34-3	1,1-Dichloroethane	20	20.0	100	94-126
107-06-2	1,2-Dichloroethane	20	19.2	96	88-116
75-35-4	1,1-Dichloroethene	20	21.6	108	83-134
156-59-2	cis-1,2-Dichloroethene	20	19.1	96	83-115
156-60-5	trans-1,2-Dichloroethene	20	21.0	105	94-129
78-87-5	1,2-Dichloropropane	20	19.9	100	90-118
10061-01-5	cis-1,3-Dichloropropene	20	19.5	98	96-125
10061-02-6	trans-1,3-Dichloropropene	20	18.4	92	85-120
100-41-4	Ethylbenzene	20	21.1	106	81-126
75-09-2	Methylene chloride	20	20.1	101	72-137
1634-04-4	Methyl Tert Butyl Ether	20	19.9	100	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	18.5	93	82-119
127-18-4	Tetrachloroethene	20	20.1	101	94-125
108-88-3	Toluene	20	20.8	104	82-123
71-55-6	1,1,1-Trichloroethane	20	20.3	102	89-127
79-00-5	1,1,2-Trichloroethane	20	19.0	95	86-117
79-01-6	Trichloroethene	20	20.4	102	92-124
75-69-4	Trichlorofluoromethane	20	20.4	102	77-139
75-01-4	Vinyl chloride	20	20.5	103	59-146
95-47-6	o-Xylene	20	20.5	103	81-123
	m,p-Xylene	40	41.7	104	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR878-BS	QR020701.D 1		02/10/04	RA	n/a	n/a	GQR878

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-1, F21944-3

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	97%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR880-BS	QR020746.D 1		02/12/04	RA	n/a	n/a	GQR880

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-2, F21944-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.3	97	86-121
75-27-4	Bromodichloromethane	20	18.9	95	82-107
75-25-2	Bromoform	20	16.2	81	74-111
74-83-9	Bromomethane	20	17.6	88	64-132
56-23-5	Carbon tetrachloride	20	19.4	97	92-129
108-90-7	Chlorobenzene	20	18.4	92	81-119
124-48-1	Dibromochloromethane	20	17.6	88	77-109
75-00-3	Chloroethane	20	17.6	88	83-125
110-75-8	2-Chloroethylvinyl ether	20	16.8	84	45-150
67-66-3	Chloroform	20	17.8	89	85-111
74-87-3	Chloromethane	20	25.6	128	65-141
95-50-1	1,2-Dichlorobenzene	20	18.1	91	75-120
541-73-1	1,3-Dichlorobenzene	20	18.3	92	77-121
106-46-7	1,4-Dichlorobenzene	20	18.5	93	75-122
75-71-8	Dichlorodifluoromethane	20	23.2	116	51-152
75-34-3	1,1-Dichloroethane	20	19.5	98	94-126
107-06-2	1,2-Dichloroethane	20	18.7	94	88-116
75-35-4	1,1-Dichloroethene	20	21.2	106	83-134
156-59-2	cis-1,2-Dichloroethene	20	18.5	93	83-115
156-60-5	trans-1,2-Dichloroethene	20	20.4	102	94-129
78-87-5	1,2-Dichloropropane	20	19.3	97	90-118
10061-01-5	cis-1,3-Dichloropropene	20	18.6	93*	96-125
10061-02-6	trans-1,3-Dichloropropene	20	17.4	87	85-120
100-41-4	Ethylbenzene	20	19.7	99	81-126
75-09-2	Methylene chloride	20	19.9	100	72-137
1634-04-4	Methyl Tert Butyl Ether	20	16.3	82	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	17.3	87	82-119
127-18-4	Tetrachloroethene	20	18.9	95	94-125
108-88-3	Toluene	20	19.3	97	82-123
71-55-6	1,1,1-Trichloroethane	20	19.8	99	89-127
79-00-5	1,1,2-Trichloroethane	20	18.2	91	86-117
79-01-6	Trichloroethene	20	19.9	100	92-124
75-69-4	Trichlorofluoromethane	20	18.7	94	77-139
75-01-4	Vinyl chloride	20	19.5	98	59-146
95-47-6	o-Xylene	20	19.0	95	81-123
	m,p-Xylene	40	38.8	97	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR880-BS	QR020746.D 1		02/12/04	RA	n/a	n/a	GQR880

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-2, F21944-4

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	104%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	101%	70-123%
563-58-6	1,1-Dichloropropene	99%	86-112%
563-58-6	1,1-Dichloropropene	96%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21944-1MS	QR020708.D	400	02/10/04	RA	n/a	n/a	GQR878
F21944-1MSD	QR020709.D	400	02/10/04	RA	n/a	n/a	GQR878
F21944-1	QR020703.D	20	02/10/04	RA	n/a	n/a	GQR878
F21944-1	QR020707.D	400	02/10/04	RA	n/a	n/a	GQR878

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-1, F21944-3

CAS No.	Compound	F21944-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		8000	7780	97	7500	94	4	77-125/6
75-27-4	Bromodichloromethane	ND		8000	7510	94	7410	93	1	77-111/9
75-25-2	Bromoform	ND		8000	6820	85	6830	85	0	69-117/9
74-83-9	Bromomethane	ND		8000	7890	99	7670	96	3	60-134/14
56-23-5	Carbon tetrachloride	ND		8000	7680	96	7550	94	2	83-133/8
108-90-7	Chlorobenzene	ND		8000	7390	92	7260	91	2	78-120/8
124-48-1	Dibromochloromethane	ND		8000	7240	91	7270	91	0	70-117/9
75-00-3	Chloroethane	ND		8000	7290	91	7040	88	3	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		8000	6980	87	6830	85	2	20-122/32
67-66-3	Chloroform	ND		8000	7120	89	7050	88	1	80-116/7
74-87-3	Chloromethane	ND		8000	7090	89	6970	87	2	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		8000	7390	92	7190	90	3	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		8000	7470	93	7470	93	0	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		8000	7460	93	7290	91	2	67-129/7
75-71-8	Dichlorodifluoromethane	ND		8000	7660	96	7500	94	2	19-163/14
75-34-3	1,1-Dichloroethane	ND		8000	7740	97	7590	95	2	90-129/8
107-06-2	1,2-Dichloroethane	ND		8000	7460	93	7400	93	1	87-117/7
75-35-4	1,1-Dichloroethene	50.5		8000	8490	105	8230	102	3	81-139/19
156-59-2	cis-1,2-Dichloroethene	3160 ^a		8000	10600	93	10500	92	1	80-116/8
156-60-5	trans-1,2-Dichloroethene	65.9		8000	8200	102	8040	100	2	88-133/9
78-87-5	1,2-Dichloropropane	ND		8000	7690	96	7660	96	0	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		8000	7520	94	7520	94	0	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		8000	7100	89	7110	89	0	74-125/11
100-41-4	Ethylbenzene	ND		8000	7850	98	7660	96	2	74-127/6
75-09-2	Methylene chloride	ND		8000	7100	89	7060	88	1	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND		8000	7450	93	7230	90	3	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		8000	7370	92	7270	91	1	80-126/10
127-18-4	Tetrachloroethene	11.5	J	8000	7650	95	7540	94	1	91-125/8
108-88-3	Toluene	ND		8000	7710	96	7520	94	2	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		8000	7820	98	7670	96	2	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		8000	7400	93	7410	93	0	85-119/9
79-01-6	Trichloroethene	5770 ^a		8000	13400	95	13200	93	2	88-124/8
75-69-4	Trichlorofluoromethane	ND		8000	7760	97	7660	96	1	68-135/15
75-01-4	Vinyl chloride	758		8000	8410	96	8210	93	2	43-150/22
95-47-6	o-Xylene	ND		8000	7570	95	7450	93	2	77-122/5
	m,p-Xylene	ND		16000	15400	96	15100	94	2	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21944-1MS	QR020708.D	400	02/10/04	RA	n/a	n/a	GQR878
F21944-1MSD	QR020709.D	400	02/10/04	RA	n/a	n/a	GQR878
F21944-1	QR020703.D	20	02/10/04	RA	n/a	n/a	GQR878
F21944-1	QR020707.D	400	02/10/04	RA	n/a	n/a	GQR878

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-1, F21944-3

CAS No.	Surrogate Recoveries	MS	MSD	F21944-1	F21944-1	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	103%	95%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	101%	88%	91%	70-123%
563-58-6	1,1-Dichloropropene	101%	101%	102%	101%	86-112%
563-58-6	1,1-Dichloropropene	96%	97%	94%	103%	86-112%

(a) Result is from Run #2.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21944-2MS	QR020753.D	20	02/12/04	RA	n/a	n/a	GQR880
F21944-2MSD	QR020754.D	20	02/12/04	RA	n/a	n/a	GQR880
F21944-2	QR020751.D	20	02/12/04	RA	n/a	n/a	GQR880

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-2, F21944-4

CAS No.	Compound	F21944-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	400	403	101	389	97	4	77-125/6	
75-27-4	Bromodichloromethane	ND	400	394	99	382	96	3	77-111/9	
75-25-2	Bromoform	ND	400	356	89	360	90	1	69-117/9	
74-83-9	Bromomethane	ND	400	405	101	383	96	6	60-134/14	
56-23-5	Carbon tetrachloride	ND	400	404	101	388	97	4	83-133/8	
108-90-7	Chlorobenzene	ND	400	386	97	382	96	1	78-120/8	
124-48-1	Dibromochloromethane	ND	400	378	95	376	94	1	70-117/9	
75-00-3	Chloroethane	ND	400	402	101	381	95	5	66-135/13	
110-75-8	2-Chloroethylvinyl ether	ND	400	329	82	240	60	31	20-122/32	
67-66-3	Chloroform	ND	400	381	95	367	92	4	80-116/7	
74-87-3	Chloromethane	ND	400	594	149	547	137	8	42-154/21	
95-50-1	1,2-Dichlorobenzene	ND	400	380	95	371	93	2	69-125/7	
541-73-1	1,3-Dichlorobenzene	ND	400	394	99	383	96	3	71-126/7	
106-46-7	1,4-Dichlorobenzene	ND	400	388	97	383	96	1	67-129/7	
75-71-8	Dichlorodifluoromethane	ND	400	535	134	493	123	8	19-163/14	
75-34-3	1,1-Dichloroethane	ND	400	405	101	397	99	2	90-129/8	
107-06-2	1,2-Dichloroethane	ND	400	393	98	384	96	2	87-117/7	
75-35-4	1,1-Dichloroethene	22.2	400	458	109	458	109	0	81-139/19	
156-59-2	cis-1,2-Dichloroethene	926	400	1070	36* a	1030	26* a	4	80-116/8	
156-60-5	trans-1,2-Dichloroethene	66.1	400	485	105	467	100	4	88-133/9	
78-87-5	1,2-Dichloropropane	ND	400	411	103	398	100	3	86-123/9	
10061-01-5	cis-1,3-Dichloropropene	ND	400	402	101	391	98	3	86-129/10	
10061-02-6	trans-1,3-Dichloropropene	ND	400	369	92	369	92	0	74-125/11	
100-41-4	Ethylbenzene	ND	400	413	103	402	101	3	74-127/6	
75-09-2	Methylene chloride	ND	400	459	115	408	102	12	61-144/26	
1634-04-4	Methyl Tert Butyl Ether	ND	400	353	88	352	88	0	66-127/9	
79-34-5	1,1,2,2-Tetrachloroethane	ND	400	370	93	379	95	2	80-126/10	
127-18-4	Tetrachloroethene	ND	400	408	102	390	98	5	91-125/8	
108-88-3	Toluene	ND	400	404	101	391	98	3	77-124/5	
71-55-6	1,1,1-Trichloroethane	ND	400	415	104	395	99	5	85-129/9	
79-00-5	1,1,2-Trichloroethane	ND	400	385	96	382	96	1	85-119/9	
79-01-6	Trichloroethene	651	400	879	57*	840	47*	5	88-124/8	
75-69-4	Trichlorofluoromethane	ND	400	427	107	397	99	7	68-135/15	
75-01-4	Vinyl chloride	87.3	400	514	107	466	95	10	43-150/22	
95-47-6	o-Xylene	ND	400	398	100	388	97	3	77-122/5	
	m,p-Xylene	ND	800	808	101	791	99	2	75-127/6	

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F21944

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F21944-2MS	QR020753.D	20	02/12/04	RA	n/a	n/a	GQR880
F21944-2MSD	QR020754.D	20	02/12/04	RA	n/a	n/a	GQR880
F21944-2	QR020751.D	20	02/12/04	RA	n/a	n/a	GQR880

The QC reported here applies to the following samples:

Method: SW846 8021B

F21944-2, F21944-4

CAS No.	Surrogate Recoveries	MS	MSD	F21944-2	Limits
352-33-0	1-Chloro-4-fluorobenzene	104%	105%	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	102%	91%	70-123%
563-58-6	1,1-Dichloropropene	99%	99%	100%	86-112%
563-58-6	1,1-Dichloropropene	95%	95%	99%	86-112%

(a) Outside control limits due to high level in sample relative to spike amount.



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F21944
Account: STOLCOGJ - S M Stoller
Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

02/13/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6	anr	
Antimony	5.0	1.5	anr	
Arsenic	10	2.8	anr	
Barium	200	.5	anr	
Beryllium	4.0	.3	anr	
Cadmium	5.0	.3	anr	
Calcium	1000	3.8	anr	
Chromium	10	.4	anr	
Cobalt	50	.5	anr	
Copper	25	.44	anr	
Iron	300	7.1	-15	<300
Lead	5.0	1.2	anr	
Magnesium	5000	9.9	anr	
Manganese	15	.16	anr	
Molybdenum	50	.75		
Nickel	40	1.1	anr	
Potassium	5000	14	anr	
Selenium	10	2	anr	
Silver	10	.6	anr	
Sodium	5000	150	anr	
Thallium	10	1.5	anr	
Tin	50	1.5		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP6342: F21944-3, F21944-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21944
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/13/04 Analyte: 02/13/04

Metal	F21921-1 Original DUP	RPD	QC Limits	F21921-1 Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr						
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt	anr						
Copper	anr						
Iron	385	375	2.6	0-14	385	28700	27000
Lead	anr						
Magnesium	anr						
Manganese	anr						
Molybdenum							
Nickel	anr						
Potassium	anr						
Selenium	anr						
Silver	anr						
Sodium	anr						
Thallium	anr						
Tin							
Vanadium	anr						
Zinc	anr						

Associated samples MP6342: F21944-3, F21944-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

6.1.2
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21944

Account: STOLCOGJ - S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date:

02/13/04

Metal	F21921-1 Original	MSD	Spikelot MPFLICP	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	anr					
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	385	29300	27000	107.1	2.1	20
Lead	anr					
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Thallium	anr					
Tin						
Vanadium	anr					
Zinc	anr					

Associated samples MP6342: F21944-3, F21944-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

6.1.2
6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F21944
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/13/04

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	28600	27000	105.9	80-120
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6342: F21944-3, F21944-4

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.3
6

SERIAL DILUTION RESULTS SUMMARY

Login Number: F21944
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/13/04

Metal	F21921-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	385	343	10.0	0-10
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6342: F21944-3, F21944-4

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.1.4
6



03/31/04

Technical Report for

S M Stoller

Mid-Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F22221

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **28**



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Conference
and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: F22221-1: PIN15-INF1-N001	5
3.2: F22221-2: PIN15-EFF1-N001	9
Section 4: Misc. Forms	13
4.1: Chain of Custody	14
Section 5: GC Volatiles - QC Data Summaries	16
5.1: Method Blank Summary	17
5.2: Blank Spike Summary	19
5.3: Matrix Spike/Matrix Spike Duplicate Summary	21
Section 6: Metals Analysis - QC Data Summaries	23
6.1: Prep QC MP6395: Fe	24



Sample Summary

S M Stoller

Job No: F22221

Mid-Monthly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F22221-1	02/17/04	10:45 JC	02/17/04	AQ	Ground Water	PIN15-INF1-N001
F22221-2	02/17/04	10:50 JC	02/17/04	AQ	Ground Water	PIN15-EFF1-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Mid-Monthly Sampling, STAR Center, Largo FL
Job No.: F22221
Report Date: March 04, 2004

2 samples were collected on February 17, 2004 and received on February 17, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

VOCs, SW846 8021B:

- Sample PIN15-EFF1-N001 (F22221-2) required a 2X dilution due to foaming. Data has been footnoted accordingly.
- The MS/MSD associated with analytical batch GQR886 had recoveries below acceptance limits. The Blank Spike was within limits. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other than conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: March 04, 2004

Report of Analysis

Page 1 of 2

3-1
3**Client Sample ID:** PIN15-INF1-N001**Lab Sample ID:** F22221-1**Date Sampled:** 02/17/04**Matrix:** AQ - Ground Water**Date Received:** 02/17/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR020853.D	100	02/25/04	RA	n/a	n/a	GQR886
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	3110	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	ND	100	50	ug/l	
75-09-2	Methylene chloride	2860	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	341	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	1490	100	50	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3-1

3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	02/17/04
Lab Sample ID:	F22221-1	Date Received:	02/17/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	692	100	50	ug/l	
95-47-6	o-Xylene	ND	100	50	ug/l	
	m,p-Xylene	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	94%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
563-58-6	1,1-Dichloropropene	98%		86-112%
563-58-6	1,1-Dichloropropene	97%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	02/17/04
Lab Sample ID:	F22221-1	Date Received:	02/17/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	3950	300	48	ug/l	1	02/27/04	03/01/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3704

(2) Prep QC Batch: MP6395

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID: PIN15-INF1-N001**Lab Sample ID:** F22221-1**Matrix:** AQ - Ground Water**Date Sampled:** 02/17/04**Date Received:** 02/17/04**Percent Solids:** n/a**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	441	4.0	mg/l	1	03/03/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Page 1 of 2

32
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	02/17/04
Lab Sample ID:	F22221-2	Date Received:	02/17/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	QR020854.D	2	02/25/04	RA	n/a	n/a	GQR886
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	1.0	ug/l	
75-27-4	Bromodichloromethane	ND	2.0	1.0	ug/l	
75-25-2	Bromoform	ND	2.0	1.0	ug/l	
74-83-9	Bromomethane	ND	2.0	1.0	ug/l	
56-23-5	Carbon tetrachloride	ND	2.0	1.0	ug/l	
108-90-7	Chlorobenzene	ND	2.0	1.0	ug/l	
124-48-1	Dibromochloromethane	ND	2.0	0.80	ug/l	
75-00-3	Chloroethane	ND	2.0	1.0	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	2.0	1.0	ug/l	
67-66-3	Chloroform	7.0	2.0	1.0	ug/l	
74-87-3	Chloromethane	ND	2.0	1.0	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	2.0	1.0	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	2.0	1.0	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	2.0	1.0	ug/l	
75-71-8	Dichlorodifluoromethane	ND	2.0	1.0	ug/l	
75-34-3	1,1-Dichloroethane	ND	2.0	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	2.0	1.0	ug/l	
75-35-4	1,1-Dichloroethene	ND	2.0	1.0	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	2.0	1.0	ug/l	
78-87-5	1,2-Dichloropropane	ND	2.0	1.0	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	2.0	0.60	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	2.0	0.60	ug/l	
100-41-4	Ethylbenzene	ND	2.0	1.0	ug/l	
75-09-2	Methylene chloride	ND	10	2.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.7	2.0	1.0	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	2.0	0.40	ug/l	
127-18-4	Tetrachloroethene	ND	2.0	1.0	ug/l	
108-88-3	Toluene	ND	2.0	1.0	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	2.0	1.0	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	2.0	1.0	ug/l	
79-01-6	Trichloroethene	ND	2.0	1.0	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	02/17/04
Lab Sample ID:	F22221-2	Date Received:	02/17/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	2.0	1.0	ug/l	
75-01-4	Vinyl chloride	ND	2.0	1.0	ug/l	
95-47-6	o-Xylene	ND	2.0	1.0	ug/l	
	m,p-Xylene	ND	4.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	94%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	95%		70-123%
563-58-6	1,1-Dichloropropene	97%		86-112%
563-58-6	1,1-Dichloropropene	101%		86-112%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

32
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	02/17/04
Lab Sample ID:	F22221-2	Date Received:	02/17/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	48 U	300	48	ug/l	1	02/27/04	03/01/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3704
 (2) Prep QC Batch: MP6395

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	02/17/04
Lab Sample ID:	F22221-2	Date Received:	02/17/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	448	4.0	mg/l	1	03/03/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

F22221

CLIENT INFORMATION			FACILITY INFORMATION						ANALYTICAL INFORMATION			MATRIX CODES	
NAME: S.M. Stoller ADDRESS: 7887 Bryan Dairy Rd., Suite 260, Large, FL 33777 CITY: Keith Miller STATE: ZIP: 970-248-6598 SEND REPORT TO: PHONE #: 970-248-6598			PROJECT NAME: STAR Center - Mid-month LOCATION: Large, FL PROJECT NO.: 110406202 On-site contact: Barry Rice FAX #: 727-549-1121									DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OL - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION			MATRIX	NO. OF BOTTLES	PRESERVATION			VOCs - 8021 Hg + Hg-2	LAB USE ONLY		
		DATE	TIME	SAMPLED BY:			HCl	NaOH	Hg(II)			HOME	
1) PIN15-INF1-N001		2-17-04	1045	AF	GW	4	3	1	3	1			
2) PIN15-EFF1-N001		2-17-04	1050	AF	GW	4	3	1	3	1			
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION						COMMENTS/REMARKS				
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____											
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY.													
RELINQUISHED BY / SAMPLER: 1. M.P.C.	DATE/TIME: 2-17-04/11:10	RECEIVED BY: 1. M.P.C. 2/17/04	RELINQUISHED BY: 2. M.P.C. 2/17/04	DATE/TIME: 13:50	RECEIVED BY: 2. M.P.C. 2/17/04								
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE/TIME:	RECEIVED BY: 4.								
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE		ON ICE	1.80	TEMPERATURE	C				

F22221: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

4.1

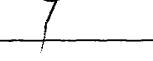
4

F22221

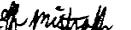
Accutest's Job Number:

Client: SM Steler Project: Star Center Mid MouthDate Received: 02/17/04 Time Received: 13:50# of Coolers Received: 1 Cooler Temperatures: 1.8°Delivery Method: FedEx UPS **Accutest Courier** Greyhound Delivery Other

Air Bill Number: _____

Cooler Custody Seals Intact ? Yes NoChain of Custody Provided ? Yes NoCOC Match Bottle Label ID's ? Yes NoSample Labels Present on all bottles ? Yes NoAll Analyses Marked On COC ? Yes NoAre All Bottles Intact ? Yes NoSamples Preserved Correctly ? Yes NoCorrect Number of Containers Used ? Yes NoSufficient Sample Volume ? Yes NoTrip Blank Provided ? Yes NoTrip Blank on COC ? Yes NoTrip Blank Intact ? Yes No N/ATrip Blank Matrix ? Soil Water N/ANumber of Enclosures ? Number of Soil Field Kits ? 

Summary of Comments: _____

Signature:  Date: 02/17/04Review Signature: 

ASBD 12/30/03

F22221: Chain of Custody**Page 2 of 2**

GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F22221

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR886-MB	QR020852.D 1		02/25/04	RA	n/a	n/a	GQR886

The QC reported here applies to the following samples:

Method: SW846 8021B

F22221-1, F22221-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F22221

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR886-MB	QR020852.D 1		02/25/04	RA	n/a	n/a	GQR886

The QC reported here applies to the following samples:

Method: SW846 8021B

F22221-1, F22221-2

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	93%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%	70-123%
563-58-6	1,1-Dichloropropene	97%	86-112%
563-58-6	1,1-Dichloropropene	105%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F22221

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR886-BS	QR020851.D 1		02/25/04	RA	n/a	n/a	GQR886

The QC reported here applies to the following samples:

Method: SW846 8021B

F22221-1, F22221-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	19.6	98	86-121
75-27-4	Bromodichloromethane	20	19.8	99	82-107
75-25-2	Bromoform	20	18.6	93	74-111
74-83-9	Bromomethane	20	19.2	96	64-132
56-23-5	Carbon tetrachloride	20	20.5	103	92-129
108-90-7	Chlorobenzene	20	19.7	99	81-119
124-48-1	Dibromochloromethane	20	19.1	96	77-109
75-00-3	Chloroethane	20	19.3	97	83-125
110-75-8	2-Chloroethylvinyl ether	20	19.6	98	45-150
67-66-3	Chloroform	20	18.8	94	85-111
74-87-3	Chloromethane	20	21.4	107	65-141
95-50-1	1,2-Dichlorobenzene	20	19.4	97	75-120
541-73-1	1,3-Dichlorobenzene	20	19.8	99	77-121
106-46-7	1,4-Dichlorobenzene	20	20.1	101	75-122
75-71-8	Dichlorodifluoromethane	20	21.8	109	51-152
75-34-3	1,1-Dichloroethane	20	20.4	102	94-126
107-06-2	1,2-Dichloroethane	20	19.8	99	88-116
75-35-4	1,1-Dichloroethene	20	21.8	109	83-134
156-59-2	cis-1,2-Dichloroethene	20	19.4	97	83-115
156-60-5	trans-1,2-Dichloroethene	20	21.4	107	94-129
78-87-5	1,2-Dichloropropane	20	20.2	101	90-118
10061-01-5	cis-1,3-Dichloropropene	20	20.3	102	96-125
10061-02-6	trans-1,3-Dichloropropene	20	18.8	94	85-120
100-41-4	Ethylbenzene	20	20.3	102	81-126
75-09-2	Methylene chloride	20	20.8	104	72-137
1634-04-4	Methyl Tert Butyl Ether	20	17.9	90	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	19.5	98	82-119
127-18-4	Tetrachloroethene	20	20.7	104	94-125
108-88-3	Toluene	20	19.7	99	82-123
71-55-6	1,1,1-Trichloroethane	20	20.9	105	89-127
79-00-5	1,1,2-Trichloroethane	20	19.8	99	86-117
79-01-6	Trichloroethene	20	20.5	103	92-124
75-69-4	Trichlorofluoromethane	20	21.6	108	77-139
75-01-4	Vinyl chloride	20	18.9	95	59-146
95-47-6	o-Xylene	20	19.5	98	81-123
	m,p-Xylene	40	39.8	100	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F22221

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR886-BS	QR020851.D 1		02/25/04	RA	n/a	n/a	GQR886

The QC reported here applies to the following samples:

Method: SW846 8021B

F22221-1, F22221-2

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	106%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	104%	70-123%
563-58-6	1,1-Dichloropropene	97%	86-112%
563-58-6	1,1-Dichloropropene	95%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F22221

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F22221-1MS	QR020862.D	100	02/25/04	RA	n/a	n/a	GQR886
F22221-1MSD	QR020863.D	100	02/25/04	RA	n/a	n/a	GQR886
F22221-1	QR020853.D	100	02/25/04	RA	n/a	n/a	GQR886

The QC reported here applies to the following samples:

Method: SW846 8021B

F22221-1, F22221-2

CAS No.	Compound	F22221-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		2000	1950	98	1960	98	1	77-125/6
75-27-4	Bromodichloromethane	ND		2000	1950	98	1950	98	0	77-111/9
75-25-2	Bromoform	ND		2000	1830	92	1860	93	2	69-117/9
74-83-9	Bromomethane	ND		2000	1940	97	1940	97	0	60-134/14
56-23-5	Carbon tetrachloride	ND		2000	2020	101	2010	101	0	83-133/8
108-90-7	Chlorobenzene	ND		2000	1930	97	1910	96	1	78-120/8
124-48-1	Dibromochloromethane	ND		2000	1870	94	1880	94	1	70-117/9
75-00-3	Chloroethane	ND		2000	1990	100	1970	99	1	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		2000	1530	77	1460	73	5	20-122/32
67-66-3	Chloroform	ND		2000	1880	94	1880	94	0	80-116/7
74-87-3	Chloromethane	ND		2000	2380	119	2400	120	1	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		2000	1870	94	1900	95	2	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		2000	1940	97	1930	97	1	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		2000	1930	97	1940	97	1	67-129/7
75-71-8	Dichlorodifluoromethane	ND		2000	2240	112	2180	109	3	19-163/14
75-34-3	1,1-Dichloroethane	ND		2000	2010	101	1990	100	1	90-129/8
107-06-2	1,2-Dichloroethane	ND		2000	1930	97	1950	98	1	87-117/7
75-35-4	1,1-Dichloroethene	ND		2000	2210	111	2210	111	0	81-139/19
156-59-2	cis-1,2-Dichloroethene	3110		2000	4690	79*	4640	77*	1	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND		2000	2160	108	2130	107	1	88-133/9
78-87-5	1,2-Dichloropropane	ND		2000	2010	101	2000	100	0	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		2000	1970	99	1960	98	1	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		2000	1820	91	1820	91	0	74-125/11
100-41-4	Ethylbenzene	ND		2000	2000	100	2010	101	0	74-127/6
75-09-2	Methylene chloride	2860		2000	4540	84	4390	77	3	61-144/26
1634-04-4	Methyl Tert Butyl Ether	ND		2000	1700	85	1770	89	4	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		2000	1880	94	1910	96	2	80-126/10
127-18-4	Tetrachloroethene	ND		2000	2040	102	2010	101	1	91-125/8
108-88-3	Toluene	341		2000	2250	95	2260	96	0	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		2000	2060	103	2040	102	1	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		2000	1930	97	1940	97	1	85-119/9
79-01-6	Trichloroethene	1490		2000	3240	88	3190	85*	2	88-124/8
75-69-4	Trichlorofluoromethane	ND		2000	2000	100	1970	99	2	68-135/15
75-01-4	Vinyl chloride	692		2000	2520	91	2450	88	3	43-150/22
95-47-6	o-Xylene	ND		2000	1940	97	1960	98	1	77-122/5
	m,p-Xylene	ND		4000	3920	98	3950	99	1	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F22221

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F22221-1MS	QR020862.D	100	02/25/04	RA	n/a	n/a	GQR886
F22221-1MSD	QR020863.D	100	02/25/04	RA	n/a	n/a	GQR886
F22221-1	QR020853.D	100	02/25/04	RA	n/a	n/a	GQR886

The QC reported here applies to the following samples:

Method: SW846 8021B

F22221-1, F22221-2

CAS No.	Surrogate Recoveries	MS	MSD	F22221-1	Limits
352-33-0	1-Chloro-4-fluorobenzene	105%	106%	94%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%	102%	92%	70-123%
563-58-6	1,1-Dichloropropene	98%	98%	98%	86-112%
563-58-6	1,1-Dichloropropene	94%	93%	97%	86-112%



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F22221
Account: STOLCOGJ - S M Stoller
Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6395
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

02/27/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6		
Antimony	5.0	1.5	anr	
Arsenic	10	2.8	anr	
Barium	200	.5	anr	
Beryllium	4.0	.3	anr	
Cadmium	5.0	.3	anr	
Calcium	1000	3.8	anr	
Chromium	10	.4	anr	
Cobalt	50	.5		
Copper	25	.44	anr	
Iron	300	7.1	-26	<300
Lead	5.0	1.2	anr	
Magnesium	5000	9.9		
Manganese	15	.16	anr	
Molybdenum	50	.75		
Nickel	40	1.1	anr	
Potassium	5000	14		
Selenium	10	2	anr	
Silver	10	.6	anr	
Sodium	5000	150		
Thallium	10	1.5		
Tin	50	1.5		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP6395: F22221-1, F22221-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F22221
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6395
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/27/04 Analyte: 02/27/04

Metal	F22212-1A Original DUP	RPD	QC Limits	F22212-1A Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum							
Antimony	anr						
Arsenic	anr						
Barium	anr						
Beryllium	anr						
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt							
Copper	anr						
Iron	0.0	0.0	NC	0-14	0.0	28600	27000
Lead	anr						
Magnesium							
Manganese	anr						
Molybdenum							
Nickel	anr						
Potassium							
Selenium	anr						
Silver	anr						
Sodium							
Thallium							
Tin							
Vanadium	anr						
Zinc	anr						

Associated samples MP6395: F22221-1, F22221-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

6.1.2
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F22221
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6395
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date:

02/27/04

Metal	F22212-1A Original MSD	Spikelot MPFLICP	MSD % Rec	MSD RPD	QC Limit
Aluminum					
Antimony	anr				
Arsenic	anr				
Barium	anr				
Beryllium	anr				
Cadmium	anr				
Calcium	anr				
Chromium	anr				
Cobalt					
Copper	anr				
Iron	0.0	29200	27000	108.1	2.1
Lead	anr				
Magnesium					
Manganese	anr				
Molybdenum					
Nickel	anr				
Potassium					
Selenium	anr				
Silver	anr				
Sodium					
Thallium					
Tin					
Vanadium	anr				
Zinc	anr				

Associated samples MP6395: F22221-1, F22221-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F22221
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6395
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/27/04

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum				
Antimony	anr			
Arsenic	anr			
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt				
Copper	anr			
Iron	29100	27000	107.8	80-120
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Thallium				
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6395: F22221-1, F22221-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.3
6

SERIAL DILUTION RESULTS SUMMARY

Login Number: F22221
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6395
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/27/04

Metal	F22212-1A Original	SDL 1:5	RPD	QC Limits
-------	-----------------------	---------	-----	--------------

Aluminum
 Antimony anr
 Arsenic anr
 Barium anr
 Beryllium anr
 Cadmium anr
 Calcium anr
 Chromium anr
 Cobalt
 Copper anr
 Iron 0.00 0.00 NC 0-10
 Lead anr
 Magnesium
 Manganese anr
 Molybdenum
 Nickel anr
 Potassium
 Selenium anr
 Silver anr
 Sodium
 Thallium
 Tin
 Vanadium anr
 Zinc anr

Associated samples MP6395: F22221-1, F22221-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

6.1.4
6



Southeast

03/31/04

Technical Report for

S M Stoller

Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F22524

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **45**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads "Harry Behzadi".

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: F22524-1: PIN12-RW01-N001	5
3.2: F22524-2: PIN12-RW02-N001	7
3.3: F22524-3: PIN15-INF1-N001	9
3.4: F22524-4: PIN15-EFF1-N001	13
3.5: F22524-5: PIN18-RW02-N001	17
3.6: F22524-6: PIN18-RW03-N001	18
3.7: F22524-7: PIN18-RW0501-N001	19
3.8: F22524-8: PIN18-EFF1-N001	20
3.9: F22524-9: PIN18-EFF2-N001	21
Section 4: Misc. Forms	22
4.1: Chain of Custody	23
Section 5: GC Volatiles - QC Data Summaries	26
5.1: Method Blank Summary	27
5.2: Blank Spike Summary	32
5.3: Matrix Spike/Matrix Spike Duplicate Summary	35
Section 6: Metals Analysis - QC Data Summaries	40
6.1: Prep QC MP6450: As,Fe	41

Sample Summary

S M Stoller

Job No: F22524

Monthly Sampling, STAR Center, Largo, FL
 Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F22524-1	03/03/04	09:50 JC	03/03/04	AQ	Ground Water	PIN12-RW01-N001
F22524-2	03/03/04	09:52 JC	03/03/04	AQ	Ground Water	PIN12-RW02-N001
F22524-3	03/03/04	10:08 JC	03/03/04	AQ	Ground Water	PIN15-INF1-N001
F22524-4	03/03/04	10:13 JC	03/03/04	AQ	Ground Water	PIN15-EFF1-N001
F22524-5	03/03/04	09:39 JC	03/03/04	AQ	Ground Water	PIN18-RW02-N001
F22524-6	03/03/04	09:37 JC	03/03/04	AQ	Ground Water	PIN18-RW03-N001
F22524-7	03/03/04	09:41 JC	03/03/04	AQ	Ground Water	PIN18-RW0501-N001
F22524-8	03/03/04	09:40 JC	03/03/04	AQ	Ground Water	PIN18-EFF1-N001
F22524-9	03/03/04	09:44 JC	03/03/04	AQ	Ground Water	PIN18-EFF2-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Monthly Sampling, STAR Center, Largo FL
Job No.: F22524
Report Date: March 17, 2004

9 samples were collected on March 03, 2004 and received on March 03, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other than conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: March 17, 2004

Report of Analysis

Page 1 of 2

3-1
3**Client Sample ID:** PIN12-RW01-N001**Lab Sample ID:** F22524-1**Date Sampled:** 03/03/04**Matrix:** AQ - Ground Water**Date Received:** 03/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR021140.D	100	03/09/04	RA	n/a	n/a	GQR898
Run #2	QR021171.D	400	03/09/04	RA	n/a	n/a	GQR900

Purge Volume

Run #1 5.0 ml

Run #2 5.0 ml

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	3650	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	112	100	50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	ND	100	50	ug/l	
75-09-2	Methylene chloride	ND	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	ND	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	6120 ^a	400	200	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

3-1

3

Client Sample ID: PIN12-RW01-N001**Lab Sample ID:** F22524-1**Date Sampled:** 03/03/04**Matrix:** AQ - Ground Water**Date Received:** 03/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	756	100	50	ug/l	
95-47-6	o-Xylene	ND	100	50	ug/l	
	m,p-Xylene	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	90%	92%	70-123%
563-58-6	1,1-Dichloropropene	101%	100%	86-112%
563-58-6	1,1-Dichloropropene	98%	101%	86-112%

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

32
3

Client Sample ID:	PIN12-RW02-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-2	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR021142.D	20	03/09/04	RA	n/a	n/a	GQR898
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	20	10	ug/l	
75-27-4	Bromodichloromethane	ND	20	10	ug/l	
75-25-2	Bromoform	ND	20	10	ug/l	
74-83-9	Bromomethane	ND	20	10	ug/l	
56-23-5	Carbon tetrachloride	ND	20	10	ug/l	
108-90-7	Chlorobenzene	ND	20	10	ug/l	
124-48-1	Dibromochloromethane	ND	20	8.0	ug/l	
75-00-3	Chloroethane	ND	20	10	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	20	10	ug/l	
67-66-3	Chloroform	ND	20	10	ug/l	
74-87-3	Chloromethane	ND	20	10	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	20	10	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	20	10	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	20	10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	20	10	ug/l	
75-34-3	1,1-Dichloroethane	ND	20	10	ug/l	
107-06-2	1,2-Dichloroethane	ND	20	10	ug/l	
75-35-4	1,1-Dichloroethene	18.5	20	10	ug/l	J
156-59-2	cis-1,2-Dichloroethene	760	20	10	ug/l	
156-60-5	trans-1,2-Dichloroethene	57.6	20	10	ug/l	
78-87-5	1,2-Dichloropropane	15.7	20	10	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	20	6.0	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	20	6.0	ug/l	
100-41-4	Ethylbenzene	ND	20	10	ug/l	
75-09-2	Methylene chloride	ND	100	20	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	20	10	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	20	4.0	ug/l	
127-18-4	Tetrachloroethene	ND	20	10	ug/l	
108-88-3	Toluene	ND	20	10	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	20	10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	20	10	ug/l	
79-01-6	Trichloroethene	569	20	10	ug/l	

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

32
3**Client Sample ID:** PIN12-RW02-N001**Lab Sample ID:** F22524-2**Date Sampled:** 03/03/04**Matrix:** AQ - Ground Water**Date Received:** 03/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**VOA Special List**

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	20	10	ug/l	
75-01-4	Vinyl chloride	78.3	20	10	ug/l	
95-47-6	o-Xylene	ND	20	10	ug/l	
	m,p-Xylene	ND	40	10	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	87%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	98%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

33
3**Client Sample ID:** PIN15-INF1-N001**Lab Sample ID:** F22524-3**Date Sampled:** 03/03/04**Matrix:** AQ - Ground Water**Date Received:** 03/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR021141.D	100	03/09/04	RA	n/a	n/a	GQR898
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	100	50	ug/l	
75-27-4	Bromodichloromethane	ND	100	50	ug/l	
75-25-2	Bromoform	ND	100	50	ug/l	
74-83-9	Bromomethane	ND	100	50	ug/l	
56-23-5	Carbon tetrachloride	ND	100	50	ug/l	
108-90-7	Chlorobenzene	ND	100	50	ug/l	
124-48-1	Dibromochloromethane	ND	100	40	ug/l	
75-00-3	Chloroethane	ND	100	50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	100	50	ug/l	
67-66-3	Chloroform	ND	100	50	ug/l	
74-87-3	Chloromethane	ND	100	50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	100	50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	100	50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	100	50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	100	50	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	50	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	50	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	50	ug/l	
156-59-2	cis-1,2-Dichloroethene	2960	100	50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	50	ug/l	
78-87-5	1,2-Dichloropropane	67.3	100	50	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	100	30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	30	ug/l	
100-41-4	Ethylbenzene	ND	100	50	ug/l	
75-09-2	Methylene chloride	3540	500	100	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	100	50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	20	ug/l	
127-18-4	Tetrachloroethene	ND	100	50	ug/l	
108-88-3	Toluene	348	100	50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	50	ug/l	
79-01-6	Trichloroethene	1690	100	50	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

33
3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-3	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	100	50	ug/l	
75-01-4	Vinyl chloride	934	100	50	ug/l	
95-47-6	o-Xylene	ND	100	50	ug/l	
	m,p-Xylene	ND	200	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	89%		70-123%
563-58-6	1,1-Dichloropropene	101%		86-112%
563-58-6	1,1-Dichloropropene	97%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.3
3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-3	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	3700	300	48	ug/l	1	03/12/04	03/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3721

(2) Prep QC Batch: MP6450

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.3

Client Sample ID:	PIN15-INF1-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-3	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	451	4.0	mg/l	1	03/16/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Page 1 of 2

34
3**Client Sample ID:** PIN15-EFF1-N001**Lab Sample ID:** F22524-4**Date Sampled:** 03/03/04**Matrix:** AQ - Ground Water**Date Received:** 03/03/04**Method:** SW846 8021B**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	QR021206.D	1	03/10/04	RA	n/a	n/a	GQR902
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	7.5	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.4	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

34
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-4	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8021B		
Project:	Monthly Sampling, STAR Center, Largo, FL		

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
352-33-0	1-Chloro-4-fluorobenzene	92%		70-123%
352-33-0	1-Chloro-4-fluorobenzene	94%		70-123%
563-58-6	1,1-Dichloropropene	100%		86-112%
563-58-6	1,1-Dichloropropene	101%		86-112%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-4	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	3350	300	48	ug/l	1	03/12/04	03/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3721

(2) Prep QC Batch: MP6450

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3-4
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-4	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	456	4.0	mg/l	1	03/16/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Page 1 of 1

3.5
3**Client Sample ID:** PIN18-RW02-N001**Lab Sample ID:** F22524-5**Matrix:** AQ - Ground Water**Date Sampled:** 03/03/04**Date Received:** 03/03/04**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic	169	10	3.5	ug/l	1	03/12/04	03/15/04	DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3721

(2) Prep QC Batch: MP6450

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.6
3

Client Sample ID:	PIN18-RW03-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-6	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	43.5	10	3.5	ug/l	1	03/12/04	03/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3721

(2) Prep QC Batch: MP6450

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID: PIN18-RW0501-N001**Lab Sample ID:** F22524-7**Matrix:** AQ - Ground Water**Date Sampled:** 03/03/04**Date Received:** 03/03/04**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	142	10	3.5	ug/l	1	03/12/04	03/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3721

(2) Prep QC Batch: MP6450

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.8
3

Client Sample ID:	PIN18-EFF1-N001	Date Sampled:	03/03/04
Lab Sample ID:	F22524-8	Date Received:	03/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	42.9	10	3.5	ug/l	1	03/12/04	03/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3721

(2) Prep QC Batch: MP6450

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

39
3**Client Sample ID:** PIN18-EFF2-N001**Lab Sample ID:** F22524-9**Matrix:** AQ - Ground Water**Date Sampled:** 03/03/04**Date Received:** 03/03/04**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	03/12/04	03/15/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3721

(2) Prep QC Batch: MP6450

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

F22524

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES	
NAME: S.M. Stoller ADDRESS: 7887 Bryan Dairy Rd., Suite 260 Largo, FL 33777 CITY: State: ZIP: Keith Miller SEND REPORT TO: PHONE #: 970-248-6598 FAX #: 727-549-1121			PROJECT NAME: STAR Center- Monthly sampling LOCATION: Largo, FL PROJECT NO.: 110406202 On-site contact: Julian Caballero						DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID	
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION		COLLECTION			PRESERVATION			LAB USE ONLY	
			DATE	TIME	SAMPLED BY:	MATRIX	# OF BOTTLES	HCl		
1	PIN12-RW01-N001	3-3-04	0950	gf	GW	3	3			3
2	PIN12-RW02-N001		0952	gf	GW	3	3			3
3	PIN15-INF1-N001		1008	gf	GW	4	3	1		3 1
4	PIN15-EFF1-N001		↓ 1013	gf	GW	4	3	1		3 1
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS				
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER			<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY)							
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY										
RELINQUISHED BY / SAMPLER: <i>J.P. Calle</i>	DATE TIME: 3-3-04 11:00	RECEIVED BY: 1. <i>J. M. - 3/3/04 11:00</i>	RELINQUISHED BY: <i>J. M. - 3/3/04 11:00</i>	DATE TIME: 11-04-04 11:00	RECEIVED BY: <i>J. M. - 3/3/04 11:00</i>	RELINQUISHED BY: <i>J. M. - 3/3/04 11:00</i>	DATE TIME: 11-04-04 11:00	RECEIVED BY: <i>J. M. - 3/3/04 11:00</i>	ON ICE: <input type="checkbox"/>	TEMPERATURE: <i>20°C</i>
RELINQUISHED BY: 3.	DATE TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE TIME:	RECEIVED BY: 4.	RELINQUISHED BY: 5.	DATE TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE: <input type="checkbox"/>

F22524: Chain of Custody

Page 1 of 3



ACCUTEST.

Laboratories

CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUITE ST. JOB

ACCUTEST QUOTE

* F22524

CLIENT INFORMATION

CLIENT INFORMATION

S. M. Stoller
NAME
7887 Bryan Dairy Rd., Suite 260
ADDRESS
Largo FL 33777
CITY, STATE ZIP
Keith Miller
BEND REPORT TO:
PHONE # 970-248-6598

FACILITY INFORMATION	
<u>PROJECT NAME</u>	STAR Center - Monthly sampling
<u>LOCATION</u>	Largo, FL
<u>PROJECT NO.</u>	110406202
<u>On-site contact:</u> Julian Caballero	
<u>FAX #</u>	727-549-1121

ANALYTICAL INFORMATION

MATRIX CODES

DW - DRINKING
WATER
GW - GROUND
WATER
WW - WASTE
WATER
SO - SOIL
SL - SLUDGE
OI - OIL
LIQ - OTHER
LIQUID
SOL - OTHER
SOLID

ACC
SAM

FIELD ID / POINT OF COLLECTION

COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION			
DATE	TIME	SAMPLED BY:			HCl	NaOH	HgSO4	None
3-3-04	0939	af	GW	1				1
	0937	af	GW	1				1
	0941	af	GW	1				1
	0940	af	GW	1				1
↓	0944	af	WW	1				1

LAB USE ONLY

DATA TURNAROUND INFORMATION

<input checked="" type="checkbox"/> STANDARD	APPROVED BY: _____
<input type="checkbox"/> 48 HOUR RUSH	_____
<input type="checkbox"/> 24 HOUR EMERGENCY	_____
<input type="checkbox"/> OTHER _____	_____

**EMERGENCY OR RUSH IS FAX DATA
UNLESS PREVIOUSLY APPROVED**

DATA DELIVERABLE INFORMATION

- STANDARD
- COMMERCIAL "B"
- DISK DELIVERABLE
- STATE FORMS
- OTHER (SPECIFY)

COMMENTS/REMARKS

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY					
RELINQUISHED BY SAMPLER: <i>Jef Cile</i>	DATE/TIME: 3-3-04 11:00	RECEIVED BY: 1. <i>El Mul 3/3/04 11:00</i>	RELINQUISHED BY: 2. <i>El Mul 3/3/04</i>	DATE/TIME: 17:00	RECEIVED BY: 2. <i>Jeff Matis</i>
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE/TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE <input type="checkbox"/>	
			ON ICE <input type="checkbox"/>	TEMPERATURE <i>20°C</i>	

F22524: Chain of Custody

Page 2 of 3

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F22524

Accutest's Job Number: **F22524**

Client: S.M. Stoller Project: STAR Center - Monthly Center
 Date Received: 3/3/04 Time Received: 17:00

* of Coolers Received: 1 Coole Temperature: 2.0°C

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number: _____

- Cooler Custody Seals Intact? Yes No
- Chain of Custody Provided? Yes No
- COC Match Bottle Label ID's? Yes No
- Sample Labels Present on all bottles? Yes No
- All Analyses Marked On COC? Yes No
- Are All Bottles Intact? Yes No
- Samples Preserved Correctly? Yes No
- Correct Number of Containers Used? Yes No
- Sufficient Sample Volume? Yes No
- Trip Blank Provided? Yes No
- Trip Blank on COC? Yes No
- Trip Blank Intact? Yes N/A
- Trip Blank Matrix? Soil Water
- Number of Enclosures? 0

Summary of Comments: Sample #2 only contains 2 vials.

Signature: M. Stoller Date: 3/4/04

Review Signature: [Signature]

ASBD 12/2003

GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR898-MB	QR021131.D 1		03/08/04	RA	n/a	n/a	GQR898

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-1, F22524-2, F22524-3

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR898-MB	QR021131.D 1		03/08/04	RA	n/a	n/a	GQR898

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-1, F22524-2, F22524-3

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	91%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	94%	70-123%
563-58-6	1,1-Dichloropropene	101%	86-112%
563-58-6	1,1-Dichloropropene	107%	86-112%

Method Blank Summary

Page 1 of 1

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR900-MB	QR021168.D 1		03/09/04	RA	n/a	n/a	GQR900

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-1

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits
352-33-0	1-Chloro-4-fluorobenzene	92% 70-123%
352-33-0	1-Chloro-4-fluorobenzene	96% 70-123%
563-58-6	1,1-Dichloropropene	100% 86-112%
563-58-6	1,1-Dichloropropene	105% 86-112%

Method Blank Summary

Page 1 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR902-MB1	QR021215.D 1		03/10/04	RA	n/a	n/a	GQR902

The QC reported here applies to the following samples:

Method: SW846 8021B

F22469-13MS, F22469-13MSD

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.50	ug/l	
75-25-2	Bromoform	ND	1.0	0.50	ug/l	
74-83-9	Bromomethane	ND	1.0	0.50	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.50	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.50	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.40	ug/l	
75-00-3	Chloroethane	ND	1.0	0.50	ug/l	
110-75-8	2-Chloroethylvinyl ether	ND	1.0	0.50	ug/l	
67-66-3	Chloroform	ND	1.0	0.50	ug/l	
74-87-3	Chloromethane	ND	1.0	0.50	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.50	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.50	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.50	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.50	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.50	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.50	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.50	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.50	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.50	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.30	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.50	ug/l	
75-09-2	Methylene chloride	ND	5.0	1.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.50	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.20	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.50	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.50	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.50	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.50	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.50	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.50	ug/l	
95-47-6	o-Xylene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	2.0	0.50	ug/l	

Method Blank Summary

Page 2 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR902-MB1	QR021215.D 1		03/10/04	RA	n/a	n/a	GQR902

The QC reported here applies to the following samples:

Method: SW846 8021B

F22469-13MS, F22469-13MSD

CAS No. Surrogate Recoveries Limits

352-33-0	1-Chloro-4-fluorobenzene	92%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	96%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	106%	86-112%

Blank Spike Summary

Page 1 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR898-BS	QR021130.D 1		03/08/04	RA	n/a	n/a	GQR898

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-1, F22524-2, F22524-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.1	101	86-121
75-27-4	Bromodichloromethane	20	19.4	97	82-107
75-25-2	Bromoform	20	18.1	91	74-111
74-83-9	Bromomethane	20	19.7	99	64-132
56-23-5	Carbon tetrachloride	20	20.0	100	92-129
108-90-7	Chlorobenzene	20	19.3	97	81-119
124-48-1	Dibromochloromethane	20	18.1	91	77-109
75-00-3	Chloroethane	20	20.1	101	83-125
110-75-8	2-Chloroethylvinyl ether	20	18.9	95	45-150
67-66-3	Chloroform	20	18.3	92	85-111
74-87-3	Chloromethane	20	22.3	112	65-141
95-50-1	1,2-Dichlorobenzene	20	19.5	98	75-120
541-73-1	1,3-Dichlorobenzene	20	19.2	96	77-121
106-46-7	1,4-Dichlorobenzene	20	19.4	97	75-122
75-71-8	Dichlorodifluoromethane	20	20.3	102	51-152
75-34-3	1,1-Dichloroethane	20	19.2	96	94-126
107-06-2	1,2-Dichloroethane	20	19.2	96	88-116
75-35-4	1,1-Dichloroethene	20	21.1	106	83-134
156-59-2	cis-1,2-Dichloroethene	20	19.0	95	83-115
156-60-5	trans-1,2-Dichloroethene	20	20.3	102	94-129
78-87-5	1,2-Dichloropropane	20	20.3	102	90-118
10061-01-5	cis-1,3-Dichloropropene	20	19.3	97	96-125
10061-02-6	trans-1,3-Dichloropropene	20	18.4	92	85-120
100-41-4	Ethylbenzene	20	20.8	104	81-126
75-09-2	Methylene chloride	20	18.8	94	72-137
1634-04-4	Methyl Tert Butyl Ether	20	17.7	89	76-117
79-34-5	1,1,2,2-Tetrachloroethane	20	18.2	91	82-119
127-18-4	Tetrachloroethene	20	20.2	101	94-125
108-88-3	Toluene	20	20.2	101	82-123
71-55-6	1,1,1-Trichloroethane	20	20.1	101	89-127
79-00-5	1,1,2-Trichloroethane	20	19.2	96	86-117
79-01-6	Trichloroethene	20	20.6	103	92-124
75-69-4	Trichlorofluoromethane	20	19.6	98	77-139
75-01-4	Vinyl chloride	20	19.6	98	59-146
95-47-6	o-Xylene	20	20.2	101	81-123
	m,p-Xylene	40	40.9	102	82-126

Blank Spike Summary

Page 2 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR898-BS	QR021130.D 1		03/08/04	RA	n/a	n/a	GQR898

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-1, F22524-2, F22524-3

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	103%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	97%	86-112%

Blank Spike Summary

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GQR900-BS	QR021167.D 1		03/09/04	RA	n/a	n/a	GQR900

The QC reported here applies to the following samples:**Method:** SW846 8021B

F22524-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
79-01-6	Trichloroethene	20	20.0	100	92-124

CAS No.	Surrogate Recoveries	BSP	Limits
352-33-0	1-Chloro-4-fluorobenzene	104%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	99%	70-123%
563-58-6	1,1-Dichloropropene	100%	86-112%
563-58-6	1,1-Dichloropropene	96%	86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F22407-2MS	QR021133.D	200	03/08/04	RA	n/a	n/a	GQR898
F22407-2MSD	QR021134.D	200	03/09/04	RA	n/a	n/a	GQR898
F22407-2	QR021132.D	200	03/08/04	RA	n/a	n/a	GQR898

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-1, F22524-2, F22524-3

CAS No.	Compound	F22407-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	2030		4000	5890	97	6000	99	2	77-125/6
75-27-4	Bromodichloromethane	ND		4000	3830	96	3840	96	0	77-111/9
75-25-2	Bromoform	ND		4000	3510	88	3600	90	3	69-117/9
74-83-9	Bromomethane	ND		4000	3790	95	3780	95	0	60-134/14
56-23-5	Carbon tetrachloride	ND		4000	3920	98	3940	99	1	83-133/8
108-90-7	Chlorobenzene	ND		4000	3830	96	3770	94	2	78-120/8
124-48-1	Dibromochloromethane	ND		4000	3550	89	3590	90	1	70-117/9
75-00-3	Chloroethane	ND		4000	3930	98	3950	99	1	66-135/13
110-75-8	2-Chloroethylvinyl ether	ND		4000	ND	0*	ND	0*	nc	20-122/32
67-66-3	Chloroform	ND		4000	3550	89	3610	90	2	80-116/7
74-87-3	Chloromethane	ND		4000	4090	102	4000	100	2	42-154/21
95-50-1	1,2-Dichlorobenzene	ND		4000	3860	97	3860	97	0	69-125/7
541-73-1	1,3-Dichlorobenzene	ND		4000	3810	95	3910	98	3	71-126/7
106-46-7	1,4-Dichlorobenzene	ND		4000	3810	95	3880	97	2	67-129/7
75-71-8	Dichlorodifluoromethane	ND		4000	3990	100	4060	102	2	19-163/14
75-34-3	1,1-Dichloroethane	ND		4000	3740	94	3810	95	2	90-129/8
107-06-2	1,2-Dichloroethane	ND		4000	3700	93	3830	96	3	87-117/7
75-35-4	1,1-Dichloroethene	ND		4000	4320	108	4160	104	4	81-139/19
156-59-2	cis-1,2-Dichloroethene	ND		4000	3660	92	3770	94	3	80-116/8
156-60-5	trans-1,2-Dichloroethene	ND		4000	3950	99	4010	100	2	88-133/9
78-87-5	1,2-Dichloropropane	ND		4000	3890	97	3930	98	1	86-123/9
10061-01-5	cis-1,3-Dichloropropene	ND		4000	3660	92	3730	93	2	86-129/10
10061-02-6	trans-1,3-Dichloropropene	ND		4000	3500	88	3560	89	2	74-125/11
100-41-4	Ethylbenzene	530		4000	4620	102	4680	104	1	74-127/6
75-09-2	Methylene chloride	ND		4000	3590	90	3700	93	3	61-144/26
1634-04-4	Methyl Tert Butyl Ether	920		4000	4210	82	4590	92	9	66-127/9
79-34-5	1,1,2,2-Tetrachloroethane	ND		4000	3590	90	3670	92	2	80-126/10
127-18-4	Tetrachloroethene	ND		4000	3910	98	3900	98	0	91-125/8
108-88-3	Toluene	5680		4000	9730	101	9870	105	1	77-124/5
71-55-6	1,1,1-Trichloroethane	ND		4000	3800	95	3940	99	4	85-129/9
79-00-5	1,1,2-Trichloroethane	ND		4000	3740	94	3770	94	1	85-119/9
79-01-6	Trichloroethene	ND		4000	3950	99	4030	101	2	88-124/8
75-69-4	Trichlorofluoromethane	ND		4000	3690	92	3760	94	2	68-135/15
75-01-4	Vinyl chloride	ND		4000	3840	96	3820	96	1	43-150/22
95-47-6	o-Xylene	803		4000	4780	99	4870	102	2	77-122/5
	m,p-Xylene	1670		8000	9750	101	9880	103	1	75-127/6

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F22407-2MS	QR021133.D	200	03/08/04	RA	n/a	n/a	GQR898
F22407-2MSD	QR021134.D	200	03/09/04	RA	n/a	n/a	GQR898
F22407-2	QR021132.D	200	03/08/04	RA	n/a	n/a	GQR898

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-1, F22524-2, F22524-3

CAS No.	Surrogate Recoveries	MS	MSD	F22407-2	Limits
352-33-0	1-Chloro-4-fluorobenzene	104%	104%	96%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	100%	102%		70-123%
563-58-6	1,1-Dichloropropene	101%	101%	101%	86-112%
563-58-6	1,1-Dichloropropene	96%	96%		86-112%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F22524-1MS	QR021172.D	400	03/09/04	RA	n/a	n/a	GQR900
F22524-1MSD	QR021173.D	400	03/09/04	RA	n/a	n/a	GQR900
F22524-1	QR021171.D	400	03/09/04	RA	n/a	n/a	GQR900

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-1

CAS No.	Compound	F22524-1		Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
79-01-6	Trichloroethene	6120		8000	14200	101	14100	100	1	88-124/8
CAS No.	Surrogate Recoveries	MS	MSD	F22524-1		Limits				
352-33-0	1-Chloro-4-fluorobenzene	103%	104%		92%		70-123%			
352-33-0	1-Chloro-4-fluorobenzene	99%	99%		92%		70-123%			
563-58-6	1,1-Dichloropropene	100%	100%		100%		86-112%			
563-58-6	1,1-Dichloropropene	95%	96%		101%		86-112%			

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F22469-13MS	QR021220.D	20	03/10/04	RA	n/a	n/a	GQR902
F22469-13MSD	QR021221.D	20	03/10/04	RA	n/a	n/a	GQR902
F22469-13	QR021219.D	20	03/10/04	RA	n/a	n/a	GQR902

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-4

CAS No.	Compound	F22469-13 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	160	400	556	99	550	98	1	77-125/6	
75-27-4	Bromodichloromethane	ND	400	383	96	377	94	2	77-111/9	
75-25-2	Bromoform	ND	400	373	93	363	91	3	69-117/9	
74-83-9	Bromomethane	ND	400	384	96	368	92	4	60-134/14	
56-23-5	Carbon tetrachloride	ND	400	378	95	379	95	0	83-133/8	
108-90-7	Chlorobenzene	ND	400	386	97	390	98	1	78-120/8	
124-48-1	Dibromochloromethane	ND	400	361	90	358	90	1	70-117/9	
75-00-3	Chloroethane	ND	400	400	100	390	98	3	66-135/13	
110-75-8	2-Chloroethylvinyl ether	ND	400	100	25	88.4	22	12	20-122/32	
67-66-3	Chloroform	ND	400	367	92	358	90	2	80-116/7	
74-87-3	Chloromethane	ND	400	414	104	399	100	4	42-154/21	
95-50-1	1,2-Dichlorobenzene	ND	400	425	106	425	106	0	69-125/7	
541-73-1	1,3-Dichlorobenzene	ND	400	419	105	408	102	3	71-126/7	
106-46-7	1,4-Dichlorobenzene	ND	400	425	106	421	105	1	67-129/7	
75-71-8	Dichlorodifluoromethane	ND	400	374	94	396	99	6	19-163/14	
75-34-3	1,1-Dichloroethane	ND	400	378	95	368	92	3	90-129/8	
107-06-2	1,2-Dichloroethane	ND	400	382	96	375	94	2	87-117/7	
75-35-4	1,1-Dichloroethene	ND	400	406	102	408	102	0	81-139/19	
156-59-2	cis-1,2-Dichloroethene	ND	400	374	94	372	93	1	80-116/8	
156-60-5	trans-1,2-Dichloroethene	ND	400	399	100	388	97	3	88-133/9	
78-87-5	1,2-Dichloropropane	ND	400	396	99	399	100	1	86-123/9	
10061-01-5	cis-1,3-Dichloropropene	ND	400	375	94	374	94	0	86-129/10	
10061-02-6	trans-1,3-Dichloropropene	ND	400	363	91	354	89	3	74-125/11	
100-41-4	Ethylbenzene	926	400	1340	104	1320	99	2	74-127/6	
75-09-2	Methylene chloride	ND	400	339	85	333	83	2	61-144/26	
1634-04-4	Methyl Tert Butyl Ether	24.2	400	378	88	345	80	9	66-127/9	
79-34-5	1,1,2,2-Tetrachloroethane	ND	400	394	99	376	94	5	80-126/10	
127-18-4	Tetrachloroethene	ND	400	401	100	394	99	2	91-125/8	
108-88-3	Toluene	ND	400	416	104	411	103	1	77-124/5	
71-55-6	1,1,1-Trichloroethane	ND	400	390	98	380	95	3	85-129/9	
79-00-5	1,1,2-Trichloroethane	ND	400	393	98	384	96	2	85-119/9	
79-01-6	Trichloroethene	ND	400	405	101	402	101	1	88-124/8	
75-69-4	Trichlorofluoromethane	ND	400	384	96	369	92	4	68-135/15	
75-01-4	Vinyl chloride	ND	400	377	94	397	99	5	43-150/22	
95-47-6	o-Xylene	ND	400	419	105	416	104	1	77-122/5	
	m,p-Xylene	ND	800	856	107	849	106	1	75-127/6	

Matrix Spike/Matrix Spike Duplicate Summary

Page 2 of 2

Job Number: F22524

Account: STOLCOGJ S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F22469-13MS	QR021220.D	20	03/10/04	RA	n/a	n/a	GQR902
F22469-13MSD	QR021221.D	20	03/10/04	RA	n/a	n/a	GQR902
F22469-13	QR021219.D	20	03/10/04	RA	n/a	n/a	GQR902

The QC reported here applies to the following samples:

Method: SW846 8021B

F22524-4

CAS No.	Surrogate Recoveries	MS	MSD	F22469-13	Limits
352-33-0	1-Chloro-4-fluorobenzene	105%	105%	102%	70-123%
352-33-0	1-Chloro-4-fluorobenzene	103%	100%		70-123%
563-58-6	1,1-Dichloropropene	100%	100%	100%	86-112%
563-58-6	1,1-Dichloropropene	97%	96%		86-112%



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F22524
Account: STOLCOGJ - S M Stoller
Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6450
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

03/12/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6	anr	
Antimony	5.0	1.5		
Arsenic	10	2.8	0.70	<10
Barium	200	.5	anr	
Beryllium	4.0	.3		
Cadmium	5.0	.3	anr	
Calcium	1000	3.8		
Chromium	10	.4	anr	
Cobalt	50	.5		
Copper	25	.44		
Iron	300	7.1	0.43	<300
Lead	5.0	1.2	anr	
Magnesium	5000	9.9		
Manganese	15	.16	anr	
Molybdenum	50	.75		
Nickel	40	1.1		
Potassium	5000	14		
Selenium	10	2	anr	
Silver	10	.6	anr	
Sodium	5000	150	anr	
Thallium	10	1.5		
Tin	50	1.5		
Vanadium	50	.47		
Zinc	20	.59	anr	

Associated samples MP6450: F22524-3, F22524-4, F22524-5, F22524-6, F22524-7, F22524-8, F22524-9

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.1
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F22524
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6450
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 03/12/04 03/12/04

Metal	F22527-1 Original DUP	RPD	QC Limits	F22527-1 Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr						
Antimony							
Arsenic	0.0	0.0	NC	0-12	0.0	4140	4000
Barium	anr						
Beryllium							
Cadmium	anr						
Calcium							
Chromium	anr						
Cobalt							
Copper							
Iron	0.0	0.0	NC	0-14	0.0	29800	27000
Lead	anr						
Magnesium							
Manganese	anr						
Molybdenum							
Nickel							
Potassium							
Selenium	anr						
Silver	anr						
Sodium	anr						
Thallium							
Tin							
Vanadium							
Zinc	anr						

Associated samples MP6450: F22524-3, F22524-4, F22524-5, F22524-6, F22524-7, F22524-8, F22524-9

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

6.1.2
6

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F22524

Account: STOLCOGJ - S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6450
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date:

03/12/04

Metal	F22527-1 Original	MSD	Spikelot MPFLICP	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	0.0	4100	4000	102.5	1.0	20
Barium	anr					
Beryllium						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper						
Iron	0.0	29200	27000	108.1	2.0	20
Lead	anr					
Magnesium						
Manganese	anr					
Molybdenum						
Nickel						
Potassium						
Selenium	anr					
Silver	anr					
Sodium	anr					
Thallium						
Tin						
Vanadium						
Zinc	anr					

Associated samples MP6450: F22524-3, F22524-4, F22524-5, F22524-6, F22524-7, F22524-8, F22524-9

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

6.1.2
6

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F22524
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6450
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 03/12/04

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	4120	4000	103.0	80-120
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	30100	27000	111.5	80-120
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium				
Tin				
Vanadium				
Zinc	anr			

Associated samples MP6450: F22524-3, F22524-4, F22524-5, F22524-6, F22524-7, F22524-8, F22524-9

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.3
6

SERIAL DILUTION RESULTS SUMMARY

Login Number: F22524
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6450
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 03/12/04

Metal	F22527-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony				
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper				
Iron	0.00	0.00	NC	0-10
Lead	anr			
Magnesium				
Manganese	anr			
Molybdenum				
Nickel				
Potassium				
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium				
Tin				
Vanadium				
Zinc	anr			

Associated samples MP6450: F22524-3, F22524-4, F22524-5, F22524-6, F22524-7, F22524-8, F22524-9

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.4
6



04/02/04

Technical Report for

S M Stoller

Mid-Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F22874

Report to:

US Dept of Energy, Grand Junction Office
2597 B3/4 Rd
Grand Junction, CO 81503

ATTN: G. Forsgren, PO# 24231

Total number of pages in report: **23**



Test results contained within this data package meet the requirements
of the National Environmental Laboratory Accreditation Conference
and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: F22874-1: PIN15-INF1-N001	5
3.2: F22874-2: PIN15-EFF1-N001	8
Section 4: Misc. Forms	11
4.1: Chain of Custody	12
Section 5: GC/MS Volatiles - QC Data Summaries	14
5.1: Method Blank Summary	15
5.2: Blank Spike Summary	16
5.3: Matrix Spike/Matrix Spike Duplicate Summary	17
Section 6: Metals Analysis - QC Data Summaries	18
6.1: Prep QC MP6510: Fe	19



Sample Summary

S M Stoller

Job No: F22874Mid-Monthly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F22874-1	03/18/04	09:40 JC	03/18/04	AQ	Ground Water	PIN15-INF1-N001
F22874-2	03/18/04	09:50 JC	03/18/04	AQ	Ground Water	PIN15-EFF1-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Mid-Monthly Sampling, STAR Center, Largo FL
Job No.: F22874
Report Date: April 02, 2004

2 samples were collected on March 18, 2004 and received on March 18, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes.

VOCs, 624:

- Sample PIN15-EFF1-N001 (F22874-2) required a 5X dilution due to foaming. Data has been footnoted accordingly.
- The MS/MSD associated with analytical batch VC957 had recoveries below acceptance limits. The Blank Spike was within limits. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other than conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: April 02, 2004

Report of Analysis

Page 1 of 1

3-1
3**Client Sample ID:** PIN15-INF1-N001**Lab Sample ID:** F22874-1**Date Sampled:** 03/18/04**Matrix:** AQ - Ground Water**Date Received:** 03/18/04**Method:** EPA 624**Percent Solids:** n/a**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	C0022141.D	10	03/29/04	KW	n/a	n/a	VC957
Run #2							

Purge Volume

Run #1 5.0 ml

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	7.6	10	5.0	ug/l	J
108-88-3	Toluene	322	10	5.0	ug/l	
100-41-4	Ethylbenzene	ND	10	5.0	ug/l	
95-47-6	o-Xylene	ND	10	5.0	ug/l	
	m,p-Xylene	ND	20	5.0	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		86-115%
17060-07-0	1,2-Dichloroethane-D4	96%		73-126%
2037-26-5	Toluene-D8	100%		86-112%
460-00-4	4-Bromofluorobenzene	99%		83-119%

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

RL = Reporting Limit

B = Indicates analyte found in associated method blank

E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID: PIN15-INF1-N001**Lab Sample ID:** F22874-1**Date Sampled:** 03/18/04**Matrix:** AQ - Ground Water**Date Received:** 03/18/04**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL**Percent Solids:** n/a**Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Iron	3950	300	48	ug/l	1	03/25/04	03/25/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3738

(2) Prep QC Batch: MP6510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.1
3**Client Sample ID:** PIN15-INF1-N001**Lab Sample ID:** F22874-1**Matrix:** AQ - Ground Water**Date Sampled:** 03/18/04**Date Received:** 03/18/04**Percent Solids:** n/a**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	469	4.0	mg/l	1	04/01/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Report of Analysis

Page 1 of 1

32
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	03/18/04
Lab Sample ID:	F22874-2	Date Received:	03/18/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	EPA 624		
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	C0022142.D	5	03/29/04	KW	n/a	n/a	VC957
Run #2							

Purge Volume	
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	5.0	2.5	ug/l	
108-88-3	Toluene	ND	5.0	2.5	ug/l	
100-41-4	Ethylbenzene	ND	5.0	2.5	ug/l	
95-47-6	o-Xylene	ND	5.0	2.5	ug/l	
	m,p-Xylene	ND	10	2.5	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		86-115%
17060-07-0	1,2-Dichloroethane-D4	98%		73-126%
2037-26-5	Toluene-D8	99%		86-112%
460-00-4	4-Bromofluorobenzene	101%		83-119%

(a) Dilution required due to matrix interference (sample foamed).

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

32
3

Client Sample ID:	PIN15-EFF1-N001	Date Sampled:	03/18/04
Lab Sample ID:	F22874-2	Date Received:	03/18/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Mid-Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Iron	3500	300	48	ug/l	1	03/25/04	03/25/04	DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3738

(2) Prep QC Batch: MP6510

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

32
3**Client Sample ID:** PIN15-EFF1-N001**Lab Sample ID:** F22874-2**Matrix:** AQ - Ground Water**Date Sampled:** 03/18/04**Date Received:** 03/18/04**Percent Solids:** n/a**Project:** Mid-Monthly Sampling, STAR Center, Largo, FL**General Chemistry**

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Hardness, Total as CaCO ₃	465	4.0	mg/l	1	04/01/04	DM	SW846 6010B/SM 2340B

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15

ORLANDO, FL 32811

TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST CHUTE #:

F22874

CLIENT INFORMATION		FACILITY INFORMATION				ANALYTICAL INFORMATION		MATRIX CODES		
NAME: S.M. Stoller ADDRESS: 7887 Bryan Dairy Rd, Suite 260 CITY: Largo STATE: FL ZIP: 33777 SEND REPORT TO: Keith Miller PHONE #: 970-248-6598 FAX #: 727-549-1121		PROJECT NAME: STAR Center - Mid-month Samp. LOCATION: Largo, FL PROJECT NO.: 110406202 On-site contact: Barry Rice								
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION	COLLECTION		MATRIX	# OF BOTTLES	PRESERVATION		VOCs	H2 + Hardness	
		DATE	TIME			SAMPLED BY:	H2			NaOH
(1)	PIN15-TNFI-N001	3-18-04	0940	OF	GW	4	3	1	3	1
(2)	PIN15-EFFI-N001	3-18-04	0950	OF	GW	4	3	1	3	1
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION				COMMENTS/REMARKS				
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____								
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY										
RELINQUISHED BY / SAMPLER: 1. <i>J.P. C.</i>	DATE/TIME: 3-18-04	RECEIVED BY: A. <i>J. Hall</i>	DATE/TIME: 3/18/04	RELINQUISHED BY: 2. <i>M. Miller</i>	DATE/TIME: 3/18/04	RECEIVED BY: <i>J. Miller</i>	DATE/TIME: 18:30	RECEIVED BY: <i>S. Stoller</i>	DATE/TIME: 3/18/04	RECEIVED BY: <i>S. Stoller</i>
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 3.	DATE/TIME:	RELINQUISHED BY: 4.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:	RECEIVED BY: 4.	DATE/TIME:	RECEIVED BY: 4.
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 5.	DATE/TIME:	SEAL #	DATE/TIME:	RECEIVE WHERE APPLICABLE <i>Y</i>	DATE/TIME:	ON ICE <input type="checkbox"/>	TEMPERATURE <input type="checkbox"/>	C

4.1

4

F22874: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F22874

Accutest's Job Number: F22874
 Client: S.M. Stoller Project: Stage center mid-month sumf
 Date Received: 3/18/04 Time Received: 13:30

of Coolers Received: 1 Cooler Temperatures: 4.8

Delivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other
 Air Bill Number:

- | | | |
|--|--------------------------------------|----------|
| Cooler Custody Seals Intact ? | <input checked="" type="radio"/> Yes | No |
| Chain of Custody Provided ? | <input checked="" type="radio"/> Yes | No |
| COC Match Bottle Label ID's ? | <input checked="" type="radio"/> Yes | No |
| Sample Labels Present on all bottles ? | <input checked="" type="radio"/> Yes | No |
| All Analyses Marked On COC ? | <input checked="" type="radio"/> Yes | No |
| Are All Bottles Intact ? | <input checked="" type="radio"/> Yes | No |
| Samples Preserved Correctly ? | <input checked="" type="radio"/> Yes | No |
| Correct Number of Containers Used ? | <input checked="" type="radio"/> Yes | No |
| Sufficient Sample Volume ? | <input checked="" type="radio"/> Yes | No |
| Trip Blank Provided ? | <input checked="" type="radio"/> Yes | No |
| Trip Blank on COC ? | <input checked="" type="radio"/> Yes | No |
| Trip Blank Intact ? | <input checked="" type="radio"/> Yes | No |
| Trip Blank Matrix ? | Soil | Water |
| Number of Enclosures ? | <u>0</u> | <u>0</u> |
| Number of Soil Field Kits ? | <u>0</u> | <u>0</u> |

Summary of Comments: _____

Calvin R. Signature: Calvin R. Date: 3/18/04
 Review Signature: _____

ASBD 123003

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: F22874

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC957-MB	C0022136.D	1	03/29/04	KW	n/a	n/a	VC957

The QC reported here applies to the following samples:

Method: EPA 624

F22874-1, F22874-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/l	
108-88-3	Toluene	ND	2.0	0.50	ug/l	
	m,p-Xylene	ND	4.0	0.50	ug/l	
95-47-6	o-Xylene	ND	2.0	0.50	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	98%
17060-07-0	1,2-Dichloroethane-D4	97%
2037-26-5	Toluene-D8	101%
460-00-4	4-Bromofluorobenzene	100%

Blank Spike Summary

Page 1 of 1

Job Number: F22874

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VC957-BS	C0022135.D	1	03/29/04	KW	n/a	n/a	VC957

The QC reported here applies to the following samples:

Method: EPA 624

F22874-1, F22874-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	24.9	100	80-120
100-41-4	Ethylbenzene	25	24.6	98	82-115
108-88-3	Toluene	25	25.1	100	81-114
	m,p-Xylene	50	48.8	98	83-118
95-47-6	o-Xylene	25	24.4	98	77-119

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	86-115%
17060-07-0	1,2-Dichloroethane-D4	100%	73-126%
2037-26-5	Toluene-D8	97%	86-112%
460-00-4	4-Bromofluorobenzene	91%	83-119%

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: F22874

Account: STOLCOGJ S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
F22874-1MS	C0022143.D	10	03/29/04	KW	n/a	n/a	VC957
F22874-1MSD	C0022144.D	10	03/29/04	KW	n/a	n/a	VC957
F22874-1	C0022141.D	10	03/29/04	KW	n/a	n/a	VC957

The QC reported here applies to the following samples:

Method: EPA 624

F22874-1, F22874-2

CAS No.	Compound	F22874-1		Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
		ug/l	Q							
71-43-2	Benzene	7.6	J	250	249	97	242	94	3	72-125/7
100-41-4	Ethylbenzene	ND		250	240	96	236	94	2	73-119/8
108-88-3	Toluene	322		250	444	49*	434	45*	2	67-123/8
	m,p-Xylene	ND		500	474	95	465	93	2	74-123/7
95-47-6	o-Xylene	ND		250	237	95	240	96	1	68-123/7

CAS No.	Surrogate Recoveries	MS	MSD	F22874-1	Limits
1868-53-7	Dibromofluoromethane	99%	100%	100%	86-115%
17060-07-0	1,2-Dichloroethane-D4	97%	97%	96%	73-126%
2037-26-5	Toluene-D8	95%	97%	100%	86-112%
460-00-4	4-Bromofluorobenzene	87%	89%	99%	83-119%



Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F22874
Account: STOLCOGJ - S M Stoller
Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6510
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

03/25/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6		
Antimony	5.0	1.5		
Arsenic	10	2.8		
Barium	200	.5		
Beryllium	4.0	.3		
Cadmium	5.0	.3	anr	
Calcium	1000	3.8		
Chromium	10	.4		
Cobalt	50	.5		
Copper	25	.44		
Iron	300	7.1	-27	<300
Lead	5.0	1.2	anr	
Magnesium	5000	9.9		
Manganese	15	.16		
Molybdenum	50	.75		
Nickel	40	1.1		
Potassium	5000	14		
Selenium	10	2		
Silver	10	.6		
Sodium	5000	150		
Thallium	10	1.5		
Tin	50	1.5		
Vanadium	50	.47		
Zinc	20	.59		

Associated samples MP6510: F22874-1, F22874-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F22874
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6510
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 03/25/04 Analyte: 03/25/04

Metal	F22951-1 Original DUP	RPD	QC Limits	F22951-1 Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum							
Antimony							
Arsenic							
Barium							
Beryllium							
Cadmium	anr						
Calcium							
Chromium							
Cobalt							
Copper							
Iron	0.0	0.0	NC	0-14	0.0	29700	27000
Lead	anr						
Magnesium							
Manganese							
Molybdenum							
Nickel							
Potassium							
Selenium							
Silver							
Sodium							
Thallium							
Tin							
Vanadium							
Zinc							

Associated samples MP6510: F22874-1, F22874-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F22874
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6510
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 03/25/04

Metal	F22951-1 Original	MSD	Spikelot MPFLICP	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Cadmium	anr					
Calcium						
Chromium						
Cobalt						
Copper						
Iron	0.0	30400	27000	112.6	2.3	20
Lead	anr					
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Thallium						
Tin						
Vanadium						
Zinc						

Associated samples MP6510: F22874-1, F22874-2

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F22874

Account: STOLCOGJ - S M Stoller

Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6510
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date: 03/25/04

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
-------	------------	------------------	-------	-----------

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium anr

Calcium

Chromium

Cobalt

Copper

Iron 29700 27000 110.0 80-120

Lead anr

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP6510: F22874-1, F22874-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.3
6

SERIAL DILUTION RESULTS SUMMARY

Login Number: F22874
 Account: STOLCOGJ - S M Stoller
 Project: Mid-Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6510
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 03/25/04

Metal	F22951-1 Original	SDL 1:5	RPD	QC Limits
-------	----------------------	---------	-----	--------------

Aluminum

Antimony

Arsenic

Barium

Beryllium

Cadmium anr

Calcium

Chromium

Cobalt

Copper

Iron 0.00 0.00 NC 0-10

Lead anr

Magnesium

Manganese

Molybdenum

Nickel

Potassium

Selenium

Silver

Sodium

Thallium

Tin

Vanadium

Zinc

Associated samples MP6510: F22874-1, F22874-2

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

6.1.4
6

Appendix C

Laboratory Reports for WWNA—January through March 2004



03/31/04

Technical Report for

S M Stoller

Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F21481

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **18**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: F21481-1: PIN18-RW02-N001	5
3.2: F21481-2: PIN18-RW03-N001	6
3.3: F21481-3: PIN18-RW0501-N001	7
3.4: F21481-4: PIN18-EFF1-N001	8
3.5: F21481-5: PIN18-EFF2-N001	9
Section 4: Misc. Forms	10
4.1: Chain of Custody	11
Section 5: Metals Analysis - QC Data Summaries	13
5.1: Prep QC MP6205: As,Ba	14

Sample Summary

S M Stoller

Job No: F21481Monthly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21481-1	01/07/04	10:57 JC	01/07/04	AQ	Ground Water	PIN18-RW02-N001
F21481-2	01/07/04	10:56 JC	01/07/04	AQ	Ground Water	PIN18-RW03-N001
F21481-3	01/07/04	10:59 JC	01/07/04	AQ	Ground Water	PIN18-RW0501-N001
F21481-4	01/07/04	11:03 JC	01/07/04	AQ	Ground Water	PIN18-EFF1-N001
F21481-5	01/07/04	11:01 JC	01/07/04	AQ	Ground Water	PIN18-EFF2-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Monthly Sampling, STAR Center, Largo FL
Job No.: F21481
Report Date: January 20, 2004

5 samples were collected on January 07, 2004 and received on January 07, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

Per Julian Caballero we were to add Barium to sample PIN18-EFF1-N001..

All method specified holding times, calibrations and quality control performance criteria were met, with the following notes:

Metals, SW846 6010:

- The Duplicate associated with batch MP6205 had one RPD above acceptance limits. The associated Blank Spike was within limits. Data not adversely affected.
- The Serial Dilution associated with batch MP6205 had one RPD above acceptance limits. The associated Blank Spike was within limits. Data not adversely affected.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other that conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: January 20, 2004

Report of Analysis

Page 1 of 1

3-1
3

Client Sample ID:	PIN18-RW02-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21481-1	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	36.3	10	3.5	ug/l	1	01/08/04	01/08/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3633

(2) Prep QC Batch: MP6205

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

32
3

Client Sample ID:	PIN18-RW03-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21481-2	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	37.4	10	3.5	ug/l	1	01/08/04	01/08/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3633
 (2) Prep QC Batch: MP6205

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.3
3**Client Sample ID:** PIN18-RW0501-N001**Lab Sample ID:** F21481-3**Matrix:** AQ - Ground Water**Date Sampled:** 01/07/04**Date Received:** 01/07/04**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic	131	10	3.5	ug/l	1	01/08/04	01/08/04	DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3633

(2) Prep QC Batch: MP6205

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

34
3

Client Sample ID:	PIN18-EFF1-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21481-4	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method	
Arsenic	46.7	10	3.5	ug/l	1	01/08/04	01/08/04	DM	SW846 6010B ¹	SW846 3010A ²
Barium	30.8 B	200	1.1	ug/l	1	01/08/04	01/08/04	DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3633

(2) Prep QC Batch: MP6205

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.5
3

Client Sample ID:	PIN18-EFF2-N001	Date Sampled:	01/07/04
Lab Sample ID:	F21481-5	Date Received:	01/07/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	01/08/04	01/08/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3633

(2) Prep QC Batch: MP6205

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811
TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #:

ACCUTEST QUOTE #:

F21481

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES			
NAME: S.M. Stoller ADDRESS: 2597 B 3/4 Rd. CITY: Grand Junction CO STATE: ZIP: 81503 SEND REPORT TO: Keith Miller PHONE #: 970-248-6598 FAX #: 727-549-1121			PROJECT NAME: STAR Center LOCATION: Largo, FL PROJECT NO.: 110406202 On-site contact: Julian Cabellero						DW - DRINKING WATER GW - GROUND WATER WW - WASTE WATER SO - SOIL SL - SLUDGE OI - OIL LIQ - OTHER LIQUID SOL - OTHER SOLID			
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION		COLLECTION			MATRIX	# OF BOTTLES	PRESERVATION			LAB USE ONLY	
			DATE	TIME	SAMPLED BY:			HCl	NaOH	IMCO	PERC	HOME
	1	PIN18-RW02-N001	1-7-04	1057	CK	GW	1	1	1	1		
	2	PIN18-RW03-N001		1056			1	1	1	1		
	3	PIN18-RW0501-N001		1059			1	1	1	1		
	4	PIN18-EFF1-N001		1103			1	1	1	1		
5	PIN18-EFF2-N001		1101			1	1	1	1			
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS						
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____										
EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED												
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY												
RELINQUISHED BY SAMPLER: <i>J.P.C.</i>	DATE/TIME: 1-7-04 / 11:20	RECEIVED BY: 1. <i>John D. Kelly 11:20</i>	RELINQUISHED BY: 2. <i>John D. Kelly 11:20</i>	DATE/TIME: 1-7-04 / 11:20	RECEIVED BY: 2. <i>Munar Mohammed</i>							
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE/TIME:	RECEIVED BY: 4.							
RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE			ON ICE	2.8	TEMPERATURE	C		

F21481: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

F21481

Accutest's Job Number:

Client: SM Stoller Project: Star CenterDate Received: 11/7/04 Time Received: 1330# of Coolers Received: 1 Cooler Temperatures: 21.8Delivery Method: FedEx UPS **Accutest Courier** Greyhound Delivery Other

Air Bill Number: _____

Cooler Custody Seals Intact ?

 Yes No

Chain of Custody Provided ?

 Yes No

COC Match Bottle Label ID's ?

 Yes No

Sample Labels Present on all bottles ?

 Yes No

All Analyses Marked On COC ?

 Yes No

Are All Bottles Intact ?

 Yes No

Samples Preserved Correctly ?

 Yes No

Correct Number of Containers Used ?

 Yes No

Sufficient Sample Volume ?

 Yes No

Trip Blank Provided ?

 Yes No

Trip Blank on COC ?

 Yes No

Trip Blank Intact ?

 Yes No N/A

Trip Blank Matrix ?

 Soil Water N/A

Number of Enclosures ?

 1
 0

Number of Soil Field Kits ?

 0

Summary of Comments: _____

_____**F21481: Chain of Custody****Page 2 of 2**Signature: Munam Mohammed Date: 11/7/04

Review Signature: _____

ASBD 12/30/03

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F21481
Account: STOLCOGJ - S M Stoller
Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date:

01/08/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6	anr	
Antimony	5.0	1.5	anr	
Arsenic	10	2.8	-1.1	<10
Barium	200	.5	-0.83	<200
Beryllium	5.0	.3	anr	
Cadmium	5.0	.3	anr	
Calcium	1000	3.8	anr	
Chromium	10	.4	anr	
Cobalt	50	.5	anr	
Copper	25	.44	anr	
Iron	300	7.1	anr	
Lead	5.0	1.2	anr	
Magnesium	5000	9.9	anr	
Manganese	15	.16	anr	
Molybdenum	50	.75		
Nickel	40	1.1	anr	
Potassium	5000	14	anr	
Selenium	10	2	anr	
Silver	10	.6	anr	
Sodium	5000	150	anr	
Thallium	10	1.5	anr	
Tin	50	1.5		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP6205: F21481-1, F21481-2, F21481-3, F21481-4, F21481-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

5.1.1
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21481

Account: STOLCOGJ - S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date:

01/08/04

01/08/04

Metal	F21478-1 Original DUP	RPD	QC Limits	F21478-1 Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr						
Antimony	anr						
Arsenic	0.0	0.0	NC	0-12	0.0	3780	4000
Barium	3.8	3.3	14.1 (a)	0-13	3.8	3880	4000
Beryllium	anr						
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt	anr						
Copper	anr						
Iron	anr						
Lead	anr						
Magnesium	anr						
Manganese	anr						
Molybdenum							
Nickel	anr						
Potassium	anr						
Selenium	anr						
Silver	anr						
Sodium	anr						
Thallium							
Tin							
Vanadium	anr						
Zinc	anr						

Associated samples MP6205: F21481-1, F21481-2, F21481-3, F21481-4, F21481-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) RPD acceptable due to low duplicate and sample concentrations.

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21481

Account: STOLCOGJ - S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date:

01/08/04

Metal	F21478-1 Original	MSD	Spikelot MPFLICP	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	0.0	3780	4000	94.5	0.0	20
Barium	3.8	3880	4000	96.9	0.0	20
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Thallium						
Tin						
Vanadium	anr					
Zinc	anr					

Associated samples MP6205: F21481-1, F21481-2, F21481-3, F21481-4, F21481-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

5.1.2
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F21481
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/08/04

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	3610	4000	90.3	80-120
Barium	3770	4000	94.3	80-120
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6205: F21481-1, F21481-2, F21481-3, F21481-4, F21481-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

5.1.3
5

SERIAL DILUTION RESULTS SUMMARY

Login Number: F21481
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6205
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 01/08/04

Metal	F21478-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	3.77	0.00	100.0(a)	0-10
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium				
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6205: F21481-1, F21481-2, F21481-3, F21481-4, F21481-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).



03/31/04

Technical Report for

S M Stoller

Monthly Sampling, STAR Center, Largo, FL

110406202

Accutest Job Number: F21943

Report to:

S M Stoller

Cathy.Kelleher@gjo.doe.gov

ATTN: Cathy Kelleher

Total number of pages in report: **18**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK
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Table of Contents

-1-

Section 1: Sample Summary	3
Section 2: Case Narrative/Conformance Summary	4
Section 3: Sample Results	5
3.1: F21943-1: PIN18-RW02-N001	5
3.2: F21943-2: PIN18-RW03-N001	6
3.3: F21943-3: PIN18-RW0501-N001	7
3.4: F21943-4: PIN18-EFF1-N001	8
3.5: F21943-5: PIN18-EFF2-N001	9
Section 4: Misc. Forms	10
4.1: Chain of Custody	11
Section 5: Metals Analysis - QC Data Summaries	13
5.1: Prep QC MP6342: As	14

Sample Summary

S M Stoller

Job No: F21943

Monthly Sampling, STAR Center, Largo, FL
Project No: 110406202

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
F21943-1	02/03/04	10:38 JC	02/03/04	AQ	Ground Water	PIN18-RW02-N001
F21943-2	02/03/04	10:37 JC	02/03/04	AQ	Ground Water	PIN18-RW03-N001
F21943-3	02/03/04	10:39 JC	02/03/04	AQ	Ground Water	PIN18-RW0501-N001
F21943-4	02/03/04	10:40 JC	02/03/04	AQ	Ground Water	PIN18-EFF1-N001
F21943-5	02/03/04	10:43 JC	02/03/04	AQ	Ground Water	PIN18-EFF2-N001

Accutest Laboratories Southeast, Inc.
Analytical Narrative

Client: S M Stoller
Site: Monthly Sampling, STAR Center, Largo FL
Job No.: F21943
Report Date: February 19, 2004

5 samples were collected on February 03, 2004 and received on February 03, 2004. Samples were intact and properly cooled. A listing of the Laboratory Sample ID, Client Sample ID, and dates of collection are presented in the Results Summary section of this report.

All method specified holding times, calibrations and quality control performance criteria were met.

Accutest Laboratories Southeast, Inc. certifies that this report meets the project requirements for analytical data produced for the samples as received at the Accutest Laboratories Southeast location as stated in the Analytical Task Order and the COC. In addition, Accutest Laboratories Southeast, Inc. certifies that data as reported meet the Data Quality Objectives for precision, accuracy and completeness as specified in the Accutest Laboratories Southeast, Inc. Quality Manual for other than conditions detailed above. It is recommended by Accutest Laboratories Southeast, Inc. that this report is to be used in its entirety. Accutest Laboratories Southeast, Inc. is not responsible for any assumptions of data quality if partial data packages are used to interpret data. The Accutest Laboratories Southeast, Inc. Laboratory Director as verified by the signature on the front page has authorized release of this report.

Narrative prepared by:

Sue O. Bell, Project Manager (signature on file)

Date: February 19, 2004

Report of Analysis

Page 1 of 1

3-1
3

Client Sample ID:	PIN18-RW02-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21943-1	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	43.3	10	3.5	ug/l	1	02/13/04	02/16/04 DM	SW846 6010B ¹	SW846 3010A ²

- (1) Instrument QC Batch: MA3683
(2) Prep QC Batch: MP6342

RL = Reporting Limit
MDL = Method Detection Limit

U = Indicates a result < MDL
B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

32
3

Client Sample ID:	PIN18-RW03-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21943-2	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	66.5	10	3.5	ug/l	1	02/13/04	02/16/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3683
 (2) Prep QC Batch: MP6342

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

3.3
3**Client Sample ID:** PIN18-RW0501-N001**Lab Sample ID:** F21943-3**Matrix:** AQ - Ground Water**Date Sampled:** 02/03/04**Date Received:** 02/03/04**Percent Solids:** n/a**Project:** Monthly Sampling, STAR Center, Largo, FL**Metals Analysis**

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	1020	10	3.5	ug/l	1	02/13/04	02/16/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3683

(2) Prep QC Batch: MP6342

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

34
3

Client Sample ID:	PIN18-EFF1-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21943-4	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	48.1	10	3.5	ug/l	1	02/13/04	02/16/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3683

(2) Prep QC Batch: MP6342

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Report of Analysis

Page 1 of 1

Client Sample ID:	PIN18-EFF2-N001	Date Sampled:	02/03/04
Lab Sample ID:	F21943-5	Date Received:	02/03/04
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Monthly Sampling, STAR Center, Largo, FL		

Metals Analysis

Analyte	Result	RL	MDL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	3.5 U	10	3.5	ug/l	1	02/13/04	02/16/04 DM	SW846 6010B ¹	SW846 3010A ²

(1) Instrument QC Batch: MA3683

(2) Prep QC Batch: MP6342

RL = Reporting Limit
 MDL = Method Detection Limit

U = Indicates a result < MDL
 B = Indicates a result > = MDL but < RL

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4405 VINELAND ROAD • SUITE C-15
ORLANDO, FL 32811

TEL: 407-425-6700 • FAX: 407-425-0707

ACCUTEST JOB #: **F21943**

ACCUTEST QUOTE #:

CLIENT INFORMATION			FACILITY INFORMATION			ANALYTICAL INFORMATION			MATRIX CODES				
NAME: S.M. Stoller ADDRESS: 2597 B 3/4 Rd. CITY: Grand Junction CO ZIP: 81503 STATE: Keith Miller SEND REPORT TO: PHONE #: 970-248-6598			PROJECT NAME: STAR Center - Monthly LOCATION: Large, FL PROJECT NO.: 110406202 On-site contact: Barry Rice FAX #: 727-549-1121										
ACCUTEST SAMPLE #	FIELD ID / POINT OF COLLECTION		COLLECTION		MATRIX: GW 6 OF BOTTLES: 1 HC: 1 NMOC: 1 HNO3: 1 PEROX: 1 NONE: 1	Arizona				LAB USE ONLY			
	1	PIN18-RW02-N001	DATE: 2-3-04	TIME: 1038			SAMPLED BY: AF						
	2	PIN18-RW03-N001		1037			AF						
	3	PIN18-RW0501-N001		1039			AF						
	4	PIN18-EFF1-N001		1040			AF						
	5	PIN18-EFF2-N001		1043			AF						
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION			COMMENTS/REMARKS							
<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> 48 HOUR RUSH <input type="checkbox"/> 24 HOUR EMERGENCY <input type="checkbox"/> OTHER _____ EMERGENCY OR RUSH IS FAX DATA UNLESS PREVIOUSLY APPROVED			<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> COMMERCIAL "B" <input type="checkbox"/> DISK DELIVERABLE <input type="checkbox"/> STATE FORMS <input type="checkbox"/> OTHER (SPECIFY) _____										
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY													
RELINQUISHED BY/SAMPLER: <i>C. Jeff P. Miller</i>	DATE/TIME: 2-3-04 /	RECEIVED BY: 1.	RELINQUISHED BY: <i>Jeff P. Miller</i>	DATE/TIME: 2-3-04 /	RECEIVED BY: 2.	RELINQUISHED BY: <i>Jeff P. Miller</i>	DATE/TIME: 2-3-04 /	RECEIVED BY: 3.	RELINQUISHED BY: <i>Jeff P. Miller</i>	DATE/TIME: 2-3-04 /	RECEIVED BY: 4.		
RELINQUISHED BY: 3.	DATE/TIME:	RECEIVED BY: 3.	RELINQUISHED BY: 4.	DATE/TIME:	RECEIVED BY: 4.	RELINQUISHED BY: 5.	DATE/TIME:	RECEIVED BY: 5.	SEAL #	PRESERVE WHERE APPLICABLE <input type="checkbox"/> ON ICE <input type="checkbox"/> TEMPERATURE -1 C			

F21943: Chain of Custody

Page 1 of 2

ACCUTEST LABORATORIES SOUTHEAST SAMPLE RECEIPT CONFIRMATION

Accutest's Job Number: F21943Client: S.M. Stoller Project: Star CenterDate Received: 2/3/04 Time Received: 17:45# of Coolers Received: 2 Cooler Temperatures: -1°C, -1°CDelivery Method: FedEx UPS Accutest Courier Greyhound Delivery Other

Air Bill Number: _____

Cooler Custody Seals Intact ?	<input type="radio"/> Yes	<input type="radio"/> No
Chain of Custody Provided ?	<input type="radio"/> Yes	<input type="radio"/> No
COC Match Bottle Label ID's ?	<input type="radio"/> Yes	<input type="radio"/> No
Sample Labels Present on all bottles ?	<input type="radio"/> Yes	<input type="radio"/> No
All Analyses Marked On COC ?	<input type="radio"/> Yes	<input type="radio"/> No
Are All Bottles Intact ?	<input type="radio"/> Yes	<input type="radio"/> No
Samples Preserved Correctly ?	<input type="radio"/> Yes	<input type="radio"/> No
Correct Number of Containers Used ?	<input type="radio"/> Yes	<input type="radio"/> No
Sufficient Sample Volume ?	<input type="radio"/> Yes	<input type="radio"/> No
Trip Blank Provided ?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Trip Blank on COC ?	<input type="radio"/> Yes	<input checked="" type="radio"/> No
Trip Blank Intact ?	<input type="radio"/> Yes	<input type="radio"/> No <u>N/A</u>
Trip Blank Matrix ?	Soil	Water <u>N/A</u>

Number of Encores ? 0Number of Soil Field Kits ? 0

Summary of Comments: _____

_____Signature: Jeff Mistrif Date: 2/4/04

Review Signature: _____

ASBD 12/30/03

F21943: Chain of Custody

Page 2 of 2

Metals Analysis

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: F21943
Account: STOLCOGJ - S M Stoller
Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
Matrix Type: AQUEOUS

Methods: SW846 6010B
Units: ug/l

Prep Date: 02/13/04

Metal	RL	IDL	MB raw	final
Aluminum	200	6.6	anr	
Antimony	5.0	1.5	anr	
Arsenic	10	2.8	-1.4	<10
Barium	200	.5	anr	
Beryllium	4.0	.3	anr	
Cadmium	5.0	.3	anr	
Calcium	1000	3.8	anr	
Chromium	10	.4	anr	
Cobalt	50	.5	anr	
Copper	25	.44	anr	
Iron	300	7.1	anr	
Lead	5.0	1.2	anr	
Magnesium	5000	9.9	anr	
Manganese	15	.16	anr	
Molybdenum	50	.75		
Nickel	40	1.1	anr	
Potassium	5000	14	anr	
Selenium	10	2	anr	
Silver	10	.6	anr	
Sodium	5000	150	anr	
Thallium	10	1.5	anr	
Tin	50	1.5		
Vanadium	50	.47	anr	
Zinc	20	.59	anr	

Associated samples MP6342: F21943-1, F21943-2, F21943-3, F21943-4, F21943-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(anr) Analyte not requested

5.1.1
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21943

Account: STOLCOGJ - S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date:

02/13/04

02/13/04

Metal	F21921-1 Original DUP	RPD	QC Limits	F21921-1 Original MS	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr						
Antimony	anr						
Arsenic	0.0	0.0	NC	0-12	0.0	3970	4000
Barium	anr						
Beryllium	anr						
Cadmium	anr						
Calcium	anr						
Chromium	anr						
Cobalt	anr						
Copper	anr						
Iron	anr						
Lead	anr						
Magnesium	anr						
Manganese	anr						
Molybdenum							
Nickel	anr						
Potassium	anr						
Selenium	anr						
Silver	anr						
Sodium	anr						
Thallium	anr						
Tin							
Vanadium	anr						
Zinc	anr						

Associated samples MP6342: F21943-1, F21943-2, F21943-3, F21943-4, F21943-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

5.1.2
5

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: F21943

Account: STOLCOGJ - S M Stoller

Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
Matrix Type: AQUEOUSMethods: SW846 6010B
Units: ug/l

Prep Date:

02/13/04

Metal	F21921-1 Original	MSD	Spikelot MPFLICP	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony	anr					
Arsenic	0.0	4020	4000	100.5	1.3	20
Barium	anr					
Beryllium	anr					
Cadmium	anr					
Calcium	anr					
Chromium	anr					
Cobalt	anr					
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium	anr					
Manganese	anr					
Molybdenum						
Nickel	anr					
Potassium	anr					
Selenium	anr					
Silver	anr					
Sodium	anr					
Thallium	anr					
Tin						
Vanadium	anr					
Zinc	anr					

Associated samples MP6342: F21943-1, F21943-2, F21943-3, F21943-4, F21943-5

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

5.1.2
5

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: F21943
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/13/04

Metal	BSP Result	Spikelot MPFLICP	% Rec	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	3860	4000	96.5	80-120
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6342: F21943-1, F21943-2, F21943-3, F21943-4, F21943-5

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

5.1.3
5

SERIAL DILUTION RESULTS SUMMARY

Login Number: F21943
 Account: STOLCOGJ - S M Stoller
 Project: Monthly Sampling, STAR Center, Largo, FL

QC Batch ID: MP6342
 Matrix Type: AQUEOUS

Methods: SW846 6010B
 Units: ug/l

Prep Date: 02/13/04

Metal	F21921-1 Original	SDL 1:5	RPD	QC Limits
Aluminum	anr			
Antimony	anr			
Arsenic	0.00	0.00	NC	0-10
Barium	anr			
Beryllium	anr			
Cadmium	anr			
Calcium	anr			
Chromium	anr			
Cobalt	anr			
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium	anr			
Manganese	anr			
Molybdenum				
Nickel	anr			
Potassium	anr			
Selenium	anr			
Silver	anr			
Sodium	anr			
Thallium	anr			
Tin				
Vanadium	anr			
Zinc	anr			

Associated samples MP6342: F21943-1, F21943-2, F21943-3, F21943-4, F21943-5

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

5.1.4

5

